ABHISHAR

VOLUME 3.0

"Friends Fun & Dreams"

TEAM

PATRON

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From the Editor's desk...

Wheels of time roll on and we have reached to the launch of ABHISHAR 3.0. It has been a great experience starting from scratch and working through all the craziness to come up with this final work. All coffee poured in, hours spent on the laptop.... Mail...crop...edit...WORTH IT.....

ABHISHAR was launched with the purpose of keeping our late friends Tushar Sharma and Abhinav Saxena alive amongst us. Since the first issue, continuous efforts have been enthusiastically poured in to generate new ideas, thinking and imparting knowledge in best possible way that our late friends would have imparted.

Abhishar 3.0 introduces a new section "Career Mantra" to quench your thirst for career related curiosity. This issue is a perfect blend of geeky and freaky stuff to tickle your gray cells and make you stick to the magazine till the end. Like the previous issue this issue contains the write-ups from our alumni sharing their experiences and expert views to ignite the readers' mind. This issue presents the interviews of Mr. Akash Gautam, India's favorite motivator, motivating you and Mr. Sanjay Singh, Managing Director of Yamaha Motors India , acquainting you to the recruiters' mindset.

It is because of you, the reader, whose suggestions have helped us to improve this magazine with every issue. Thank you for taking your time out to enjoy the beauty of this magazine. We hope that you will surely find something new that interests you or inspires you.

Surbhi Arora
Editor-in-Chief

Director's Note

I am happy to know that the 3rd volume of "Abhishar" is coming out. It is an outcome of tremendous efforts put in by the student team. "Abhishar" has become a vibrant medium to express creative and innovative spirit of the student community of ABV-IIITM. The annual magazine is a tribute to the memory of Abhinav and Tushar, who were symbols of passion and creativity.

I also take this opportunity to put on record valuable contributions of AASF, which has become an icon of P2P learning and interaction forum. , This student centric forum has become a matter of pride for the institute.
My hearty congratulations to "Abhishar" and AASF team and the faculty coordinators

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Prof. S.G.Deshmukh
Director, ABV-IIITM

Registrar's Note

AASF offers students of the institute an opportunity to understand and explore basic ideas in the relevant domains related to their curriculum. The peer learning format con-tributes to the development of confidence in students & hone their presentation skills.
I wish AASF and Abhishar 3.0 success in its endeavour.

Mr., Sanjay Bhatnagar
Registrar, ABV-IIITM

FACULTY'S SPEAK

I extend all my warm wishes for the success of the students' magazine. It will provide a peep into the thoughts, and minds of the students. It is a platform for knowledge sharing and information about the past, present and future activities in our institute campus. Getting to know the new additions in Abhishar like career mantra and the idea of reviews and feedback from students is an innovative and interactive approach.
I wish all the success to 'Abhishar'.

Dr. Joydip Dhar
Associate Professor, ABV IIITM
(Faculty Editor In Chief)

It gives immense pleasure that AASF team has put a lot of efforts in publication of recent edition of annual magazine ABHISAR. This magazine has created its own niche for readers' choice and deserves its worthy circulation. The magazine is contributing in promotion of accomplished writers to showcase their ability for related fields of writing. I congratulate for the publication and hope that it would always keep abreast of readers' expectations.

Dr. Ajay Kumar
Associate Professor, ABV IIITM

Abhishar is an unique platform for the ABV-IIITM students' community through which they reflects their other side of creativity. After the overwhelming success of last two editions, the present issue is going to exhibit fresh ideas from their day to day life. The vibes of Abhishar has already been disseminated across the culture and community of Indian students. I wish all the students a grant success for this brand new edition and looking forward to read some exciting write ups

Dr. Pradip Swarnakar
Associate Professor, ABV IIITM

I am happy that, "Abhishar", the biblio-podium is in its second episode providing another opportunity to articulate the young minds' perception and experiences. I wish the entire editorial team and the contributors to keep marching towards the endless journey of Abhishar.

Dr. K K Pattanaik
Assistant Professor, ABV IIITM

ABOUT AASF and EVENTS

AASF aims to inculcate in the students the spirit of excellence in every field. Innovation of ideas is an integral part of the forum. With peer to peer learning methodology, the forum has been laboriously engaged in organizing activities like hIQs as they act as a catalyst to evolve and nurture knowledge and know how. Forum activities and events can be divided in mainly three sections i.e. technical, managerial and literary sections. The events/contests under these sections are as follow:

Technical section :

- Windows basics, Linux- Operating system fundamentals and hardware information.
- MS Office- Working knowledge of all MS Office modules i.e. MS Word, MS PowerPoint, MS Excel, MS Access.
- Photoshop - Basics about all creative tools and working environment.
- Adobe Flash – Ideas about motion tools and creation of motions.
- hIQs on programming basics - C, C++ week, java week , python, .NET week
- Networking – Information about networking modes and importance.
- Web designing week - All fundamentals and advanced knowledge about website building and About all building parts i.e. html, php, sql, JavaScript, css.
- Ethical Hacking – basic ideas to be in safe computer system environment.
- Contests - Programming contests
  - Webkriti (website designing contest) - Debugging Contest
  - Akriti(Photoshop contest)   - Overnight Software Contest
- Quizzes - Sports Quiz
  - Bitz Quiz

Managerial section:

- Case study hIQ - Managerial concepts to handle stories which present realistic, complex, and Contextually rich situations that often involve a dilemma, conflict.
- Case study contest- To improve the ability to explore the real problems and innovate skills to solve them.
- Brand aid contest- Advertisement making contest that shows the creativity and intelligence .

New events incorporated underAASF from the session 2013-14 are like Role Play contest, Summit and how to build your CV profile, to enhance the managerial skills of the students alongside the technical aspects.

Literary section:

- Jam(jest a minute) – In this event, participants have to speak on a topic without repetition, hesitation,
 or deviation. Speakers are "challenged" by their opponents when they slip up. If the challenge is successful,
 the challenger gets the chance to speak on the same topic. The fun of this game lies in the fact that the speaker has to "speak without thinking".
- Debate- Develops knowledge, opinions and makes one think of all aspects of a matter.
- Extempore - On spot speech preparation relevant to the topic , memorization and speaking.

From the session 2013-14 a new event under the literary section has been added- HINDI JAM, to create an atmosphere of competetion for those well versedwith hindi and boost up their confidence.

EVENTS AND hIQs

PROJECT LOON
Nanda Ambati

Introduction & Motto:

With the concept of "balloon powered internet for everyone", Google dubbed this as Project Loon. Project Loon is a research and development project that's being developed by Google with the mission of providing Internet-Access to every nook & corner in this world. The project's platform is the high-altitude balloons that are to be placed in the layer of Stratosphere at an altitude of 12 miles aka 20 km to create an aerial wireless network that shall provide 3G- like speeds. The name came out to be Project Loon,

for its outlandish mission goals. The balloons are maneuvered by adjusting their altitude to float to a particular wind layer after identifying the same with the desired speed and direction by scrutinizing the data that's obtained from National Oceanic and Atmospheric Administration. Users can connect to the balloon network by using a specialized Internet antenna. The signal from balloon to balloon forming a network that is connected ground-based station that's in turn connected to an Internet Service Provider (ISP), then onto the global Internet. Coming to the role players in this project, the list starts with Rich DeVaul, Chief Technical Architect; Mike Cassidy, Project Leader; Cyrus Behroozi, Tele Communication Expert.

Technology:

The technology design used in the project could allow countries to avoid using expensive fiber cable that would have to be installed underground to allow users to connect to the Internet. Google feels this will greatly increase Internet usage in developing countries in regions such as Africa and Southeast Asia that can't afford to lay underground fiber cable.

The high-altitude polyethylene balloons fly around the world on the prevailing winds (mostly in a direction parallel with lines of latitude, i.e. east or west). Solar panels about the size of a card table that are just

below the free-flying balloons generate enough electricity in four hours to power the transmitter for a day and beam down the Internet signal to ground stations. These stations are spaced about 100 km (62 mi) apart and bounce the signal to other relay balloons that send the signal back down. Currently, the balloons communicate using unlicensed 2.4 and 5.8 GHz ISM bands, and Google claims that the setup allows it to deliver "speeds comparable to 3G" to users. It is unclear how well technologies that rely on short communications times or pings, such as VoIP, will work given that the signal may have to relay through multiple balloons before reaching the wider Internet.

Pilot Experiment:

The first person to connect to the "Google Balloon Internet" after the initial test balloons were launched into the stratosphere was a farmer in the town of Leeston, New Zealand, who was one of tens of people in and around the area of Christchurch who agreed to be a pilot tester for Project Loon. The locals knew nothing about the secret project, but allowed project workers to attach a basketball-sized receiver resembling a giant bright-red 'Google map pin' to their property in order to connect to the Internet.

Construction & Place of work:

The balloon envelopes used in the project are made by Raven Aerostar, and are composed of polyethylene plastic about 0.076 mm thick. The balloons are super pressured balloons filled with helium, and stand 15 m across and 12 m tall when fully inflated. A small box weighing 10 kg containing each balloon's electronic equipment hangs underneath the inflated envelope. This box contains circuit boards that control the system, radio antennae to communicate with other balloons and with Internet antennae on the ground, and batteries to store solar power so the balloons can operate during the night. Each balloon's electronics are powered by an array of solar panels that sit between the envelope and the hardware. In full sun, the panels produce 100 watts of power, which is sufficient to keep the unit running while also charging a battery for use at night. A parachute attached to the top of the envelope allows for a controlled descent and landing when a balloon is to be taken out of service. In the case of an unexpected failure, the parachute deploys automatically. The balloons typically have a maximum life of about 2 months, although Google claims that its tweaked design can enable them stay aloft for more than 100 days.

Reception:

Some reports have called Google's project the Google Balloon Internet. But, there was some negative reception too, personalities like Bill Gates have criticized the project. This is what Project Loon is. ❖

Don't believe everything you read!

What might start as an incorrect observation can become a false "fact" that is widely accepted. This is the evolution of the myth, and our history is peppered with more than a few things that just aren't true.
So go on reading some amazing myths.

1. Napoleon's nickname may have been "Le Petit Caporal", drawings may depict him standing among much taller soldiers and he may have had an inferiority condition named after him (the Napoleon complex), but the truth is Napoleon Bonaparte wasn't short. Napoleon's height was measured in French feet, which listed him as being 5'2". That's pretty short, but using the Imperial system, Napoleon stood at 5'6", an average height for men in his country. What about the nickname? Napoleon was given the "Petit" tag because of his friendly and respectful nature toward his soldiers; and since most of them were above 6' tall, that's why he seemed small by comparison.

2. Despite studies from the 1920s showing the opposite, many men believe that shaving, waxing and cutting hair can accelerate its growth and that the hair will return thicker and darker. In reality, it's one big special effect. For one thing, the hair that we touch, see and style isn't alive. Living hair lies under the skin and scalp, so cutting it won't change the texture or speed that it grows. The fact is, you're merely seeing your hair at a different stage. Cutting your hair doesn't change the color, either: Since the sun naturally lightens hair, new growth looks darker, but it all evens out in the end. Contd..

GEEKS CORNER

A Journey of 8000 Miles
Manav Singhal

Today, when I sit and look back at 2008 when I walked into IIITM, I swear I never knew the next five years would transform my outlook to life, perspective of progress and measure of success. A novice at computer science with some preliminary knowledge of C, I didn't know my interests in mobile technology, Java and Android could drench me so hard that one day I could be sitting in my lab in United States and talk about my journey from C to Mobile Applications to Cloud. Job was the first thing in my mind when I was in my freshmen year. After some experience with Android in my sophomore year, I just grew crazy about it. Developing apps, taking part in contests, showing my work to the world became an inherent part of my life. Still, nothing compares to the zeal with which I like to code for Mobile Applications on Android.

The idea of pursuing PhD did not occupy the smallest corner of my mind until when in my junior year; I got a chance to work on a small project on cloud. I have always had immense interest in Mobile technology and its huge impact on the life of the common. It was after that one experience that I realized Mobile when integrated with Cloud technology has huge potential to change the face of computer industry and the world. While exploring opportunities where I could work on this domain of research, realized United States provides productive environment and infrastructure to play around and explore more and more.

It may seem strange but what fantasizes me about Cloud technology is that it still in its baby steps and it seems damn interesting to be able to visualize its phases of growth and be a part of the development. Being a part of history is always awesome, you know!!!

So, there it started. My luck shook hands with my wish to pursue PhD at University of Missouri-Columbia and then the rest everything kept falling into their right places and thus today, I am sitting in my lab, working on the research paper for the project which was assigned to me the very first time I saw my professor upon reaching Columbia, MO. And, they say, Weekends~No work!!! Ha ha-ha! Does not look so to me at least for now!!!The comic below depicts a snippet of a very similar discussion I had with my advisor the last week upon deciding work hours for the lab. Go ahead and read it below:

I realize PhD is no fun except for the times when your advisor pats you for your awesome work over the weekend and when you get to see your name as authors in publications. In spite of these, it's not as bad. On a serious note, I would definitely say the idea of going into research which involves immense learning than a job which would not fetch you much except dollars. I sincerely advocate that we should always aim at giving back something to the society rather than keep taking from it. In simple tongue, I say we should always extend a hand in order to make a contribution towards making this world a better place to live with the skill set we have. ❖

Manav Singhal (2008IPG) *is working as Graduate Research Assistant at University of Missouri. He is a suberb Android Developer with very quick learning capabilities.*

3.In 1766, Jean Jacques Rousseau wrote of an incident he recalled from some 25 years earlier, in which "a great princess" (name unknown) was told that the country people had no bread. "Then let them eat cake," she replied. When Rousseau wrote of this, Marie Antoinette was an 11-year-old child in Austria. The French Revolution would not begin for another 23 years. The myth that she spoke these infamous words was probably spread by revolutionary propagandists, to illustrate her cold indifference to the plight of the French people.

4.The Great Wall of China is one of Earth's architectural wonders. Historians like Richard Halliburton boldly proclaimed that it could be seen from the moon. NASA's lunar launch proved Halliburton wrong, but the belief remains that, from a close orbit, the Great Wall is the only man-made structure visible on Earth.
Ironically, the Great Wall isn't very easy to spot from a close orbit of 180 miles -- it's large enough, but its colors don't distinguish it from its natural surroundings. Furthermore, astronauts' descriptions and photographs have shown that airports and highways can be seen from orbit as well.

5.In the 1800s, scientists debated the overall function of the brain. Out of these debates, William James later wrote about humans only using a small percentage of their brains, and the 10% myth was born.
Although simple tasks require specific brain areas, anything complicated requires far more than 10% of the brain; magnetic imaging has documented this, and scientists are basically in agreement about brain functions. Unfortunately, many psychics still use the 10% myth to promote the idea that they are using more brain power than others. Psychics might be intrinsically connected to some topics, but brain science isn't one of them.

6.One of the world's most famous fictitious characters, Mickey Mouse, is credited to Walt Disney. However, Mickey was the vision of Disney's number one animator, Ub Iwerks.

7.Four decades before Edison was born, English scientist Sir Humphry Davy invented arc lighting (using a carbon filament). For many years, numerous innovators would improve on Davy's model. The only problem: none could glow for more than twelve hours before the filament broke. The achievement of Edison's lab was to find the right filament that would burn for days on end. A major achievement, but not the first.

LIFE STYLE

Windows Turned Overleaf
Chaitanya Gupta

When Windows 7 was launched, the start-up screen and the whole booting procedure was alike the earlier version as in Vista or XP. But Windows 8 is a total change. It's one of the vital changes Microsoft introduced in Operating systems since it introduced Windows 95. It is the radical overhaul of operating system provided by Microsoft till date.

Windows 8 is all about cloud. Some features in earlier Windows versions have been improvised and worked upon that perform tremendously well in Windows 8. Booting time is cut short. Here, booting Windows feels like turning on an Android machine or any mobile device. The whole process takes less than a minute, marked by a splash screen and redesigned Windows logo. What's new in Windows 8 is that it also offers new "Picture password" option that allows you to pick any photo and make a series of gestures on it. You can make as many gestures as you want, but they do have to be taps, circles or swipes.

The important thing to realize is that there is no more 'Start button or menu' that let you begin work on the machine. In Windows 8, you have got a 'Start Screen' which is a launch-pad for applications. But it should not be seen as a desktop replacement. Windows 8 apps consume the entire screen, whereas desktop applications can still run in a window on the desktop. Previously, right-clicking an object on the desktop always brought up a context menu that gives you a choice of actions to take.In the Windows 8 interface (but not the desktop), right-clicking now produces a bar at the bottom of the screen containing assorted context-sensitive items. It's a grating change, but the arrangement makes sense in context of a touch-based display such as a tablet's.

Also, there exists a Charms Bar, which appears when you swipe in from the right side of the screen. Here, you'll find shortcuts for the Start Screen, settings menu, a list of connected devices, search and sharing.

In addition to the Start Screen, you can customize the look and feel of the lock screen. This includes the background photo as well as which notifications are to be displayed. For instance, even without entering your password, you can see upcoming calendar appointments as well as a peek at how many unread messages or emails you have.

Talking of the Desktop in Windows 8, everything is flat and two-dimensional. No transparent bordes are there. Windows Explorer is now called File Explorer, and bears the same Ribbon UI already used in Microsoft apps like Office and Paint. The Task Manager has also received a makeover so that when you first launch it, all you see is a list of open apps and nothing about processes or memory usage; just a list of programs, and an "End task" button. Click "More details," though, and you'll see a half-dozen tabs, showing you everything from performance graphs to CPU usage to running processes. One thing that hasn't changed for Desktop is keyboard shortcuts.

Navigating the Microsoft Store is similar to navigating the Start screen. Featured apps come in individual tiles, and are sorted by groups;each group also has a 'Top Free' tile and a 'New releases' tile.

GEEKS CORNER

1975
Microsoft founded

Aug. 12, 1981
IBM introduces its personal computer with Microsoft's 16-bit operating system, MS-DOS 1.0

Aug. 1, 1989
Microsoft introduces earliest version of Office suite of productivity applications

Aug. 24, 1995
Microsoft launches Windows 95

Currently, the Store has got around 1000 apps and the number will surely increase in coming months. Windows 8 includes a new file system called ReFS (Resilient File System) which adds features to improve data integrity. It's compatible with most NTFS file features. Bit-Locker, compression, and 8.3-format short filenames are left out in Windows 8. What ReFS brings to the table is improved data verification and auto-correction: ReFS continually scans the file system, including rarely used older files, to ensure they haven't become corrupted, repairing bad disk clusters and moving data as necessary.

There are numerous apps that are integrated in Windows 8 and some Bing apps as well. When you first boot up Windows 8 you'll be prompted to sign into your Microsoft account which can also be used for Hotmail, SkyDrive and Xbox Live. That means that every time you sign into a Windows 8 PC,

your settings and custom tweaks will follow you to that new device. Additionally, because your Microsoft account is linked to your SkyDrive storage, you'll be logged into SkyDrive on any Windows 8 device where you've logged in using your Microsoft ID. So, because Office 2013 backs up to SkyDrive by default, it means any document you edit on your Windows 8 device will automatically upload to the cloud. It allows for a tighter integration with the remote and cloud-based features of the new Windows OS.

Under the hood, Windows 8 offers performance improvements, a new file system, easier recovery from system problems, better cloud integration, and numerous minor enhancements. Love it or hate it, Windows 8 is ushering in a new era of cloud-connected Microsoft services, a unified user interface, and more-robust social media interaction. Windows 8 is at its best when you have the option of interacting

with it using your fingers. It doesn't matter so much if you have a touch-screen, a modern touchpad or an external trackpad that supports Windows 8 gestures since many of Windows 8's most enchanting features (the Charms Bar, etc.) are easy to use this way, but frustrating if all you have to work with is a mouse. If you have an older system whose touchpad won't support Windows 8 gestures, you might want to stick with Windows 7 until you're ready to buy a new PC -- without that touch input, many of those new features will be lost on you. For people with more touch-friendly hardware, though, Windows 8 is easier to use than you may have feared. ❖

Chaitanya Gupta(2008IPG) is working at Samsung, Delhi. He was an awesome entertainer. Infotsav Co-ordinator 2011. Mr. Aurora 2010.

Amazing Facts

• *A frog can't empty its stomach by vomiting. To empty its stomach contents, a frog throws up it's stomach first, so the stomach is dangling out of it's mouth. Then the frog uses its forearms to dig out all of the stomach's contents and then swallows the stomach back down again.*

• *In 1845 Boston had an ordinance banning bathing unless you had a doctor's prescription.*

• It is now possible to print human skin with an inkjet printer!

• Alaska has the highest percentage of people who walk to work.

• For every 'normal' webpage, there are five porn pages.

GEEKS CORNER

UNLIMITED ELECTRICITY, UNLIMITED INTERNET, AMPLE VELLA TIME AND .... WE SLEEP!

Mudit Jaju

There is no point re-iterating how awesome college and specially the hostel life is since most of us reading this article are already going through one of the best days of our life!

When you come to a college, you yourself are responsible for your actions, and there are A LOT OF THINGS TO DO - friends to get drunk with, movies to watch, football games to play, girlfriends to date, late night group discussions to attend (aka gossiping) and in all this we start to push aside the most important thing we came to college for – Building yourself (and please note this is completely different than improving your CGPA)

While the tips on how to enjoy your college are available in abundance. I will like to share some points to grow yourself

Focus on learning and as I mentioned earlier this is not even close to improving your CGPA or your CV. There are millions of streams and options which you can pursue in the real world don't be limited to what everyone around you is doing. This brings us to the 2nd point

Explore and Experience – Just because all your friends are programming on SPOJ/CodeChef does not mean you have to as well. Each person is different or I would like to use the word Special and its best not to loose yourself. Dive into different things Web Designing, Software Development, Game Programming, Mobile Development, Entrepreneurship. There are loads of things to do, try all of them to find what you are good at.

Networking – In the end it's not what you know, but who you know that matters. There is ample time, internet and social activities in your college to meet new people and build new relations. Utilize this to the maximum. Life will not be so considerate when you step outside.

Now the question remains how ?

Well I can help you with that as well, the above steps can be broken down into simple steps which you can follow

• Learn a basic language like C++/Java
Once done I guarantee you picking any other language would be a piece of cake.

• Basic Computer Skills
Develop some basic computer skills like using shortcuts, notepad++, version control, file handling, using the Terminal etc.

• Build a personal website/blog
A website will define you and a blog will help people understand this world, the way you see it. Both are important for leaving a lasting impression on others.

• Don't read – implement!
Next comes the time to get your hands dirty, time to explore, develop a basic website or a software or an app or a game. This will help you realize what your interests are. Maybe you don't like programming at all, well there are other things you can still do, keep exploring.

UNLIMITED

• Soft Skills / Personality Development

Spending the whole day watching movies or chit-chatting is good. But there are things which are even better. There are many clubs in the college (if not you could even start one), Dance Clubs, Literary Clubs, Acting Clubs etc. Join any of these to groom your personality. Always remember, in the end when two students are equal technically it comes down to who has a better

personality. Always remember, in the end when two students are equal technically it comes down to who has a better personality.

• Internships

The most important thing YOU HAVE TO DO in college. An opportunity to test your interests in a completely professional environment. Meet new people, visit a new city and make new memories. If you think internship is the same as

joining a job, then my friend you are terribly mistaken.

In the end remember YOLO is only used an excuse to justify all the things you already know are not in your best of interests. There is a big bad world out their waiting for you. Take time to prepare yourself for that. ❖

Even Google Failed!!

1.Google Lively
What was it: *A virtual environment to chat and share. Think of it as a 3D chat programme or a 3D social networking site where the user could customise every aspect of the room he or she created.*
Why was it discontinued: *The company wanted to focus more on the core search, ads and apps business.*
When: *The Lively team said in a blog post on November 19, 2008 that the services will be "discontinued at the end of December (2008), and everyone who has worked on the project will then move on to other teams."*

2.Google Answers
What was it: *Google Answers was a portal that allowed users to post bounties for well-researched answers to their queries. The person asking the question would pay anywhere between $2 to $200. In addition, he or she could also leave a tip of up to $100.*
For example, someone wanted to know the manufacturers of LCD screens in South Africa. The person would post question with a bounty on it.
Google retained 25 per cent of the researcher's reward and a 50 cent fee per question.
Why was it discontinued: *Google just said that 'other product considerations made it more effective for us to focus our efforts on other ways to help our users find information.'*
When: *In late November 2006, Google reported that it planned to permanently shut down the service by late December 2006. You can still access some of the archives.*

3.Google Print Ads and Google Radio
What was it: *Google got into selling print ads and radio ads at a much lower cost. It even reached a deal with Clear Channel Radio, whereby Google was supposed to sell about 5 per cent of its advertising space.*
Why was it discontinued: *Google said that the projects did not live up to its expectations and it did not have the impact that the company had hoped for.*
When: *The services were discontinued in 2009.*

contd..

IIITM STREETS

We use three primary colours because of the way our eyes work. At the back of our eyes are cells called cones which are sensitive to coloured light.

There are three barleycorns in an inch, three feet in a yard, and three miles in a league. Barleycorns and leagues are some old imperial units of length which are no longer used today.

Three is the first odd prime number and the second smallest prime. It is both the first Fermat prime ($2^{(2^n)}+1$) and the first Mersenne prime ($2^n - 1$), as well as the first lucky prime.

Three is the first unique prime due to the properties of its reciprocal.

Three is the second triangular number and it is the only prime triangular number. Three is the only prime which is one less than a perfect square.

Three is the fourth Fibonacci number and the third that is unique.

Three is the third Heegner number.

A natural number is divisible by three if the sum of its digits in base 10 is divisible by 3.

There are only three distinct 4×4 panmagic squares.

Only three tetrahedral numbers are also perfect squares.

STUDENTS' REVIEW ABOUT AASF

AASF, I think can not be merely described in words. Its activities, initiatives, dedication and above all commitment of the members instrumental in its being deserves every applause and mention. I can never forget my experience of being involved with it, especially the first year time. The competitions just made me better, much better. Such kind of activities are really important to make a student grow and shed his inhibitions and hesitations, and most importantly keep the passion alive. Wishing AASF all the best for future. With every passing year it is only becoming better.   *-YESODA BHARGAVA (IPG 2009)*

AASF activities, concepts and methodologies are all fine and okay.. but, it would be better if AASF takes some initiatives to help academically backward students.. AASF thinks that students should work on something which they taught so that they can learn something like "self-learning".. it is a good way.. but think of students who are a bit poor in understanding things fastly.. Helping those students who are a bit lagging in understanding things would be a great favour for them.And that would really add to your service.. Might be, this may increase burden on you people, but i feel that the satisfaction you get by   -KOLLA RAJA SHEKHAR doing this will really matter.Keep going on Guys!!! You deserve a hell lot for serving the Student-Community.All the Best :)}   *(IPG 2011)*

I would like to appreciate the effort of AASF members that are trying their hard to help us learn better things. The flow of teaching matter is nice but I think its matter must be slowed down. I can catch up all the things in class but the ones, who are not from a technical background, find it hard to digest.

-UPENDRA SACHAN (IPG 2013)

AASF is a nice platform to get a feel of all the different technologies and areas in computer science, a kind of boon for the new comers who are not having any knowledge in computer science.I feel few more things should be added in the curriculum,i am listing them here -:
1.) The students should be motivated towards programming, it has been there from the past few years but few more courses should be added and the difficult algorithm topics should be dealt in detail. Off-course, code crazy sessions are there for these things, its only required to deal with some topics in algorithm and advance data structures in detail.
2,) Promote the use of linux OS. Rest everything is fine. U all are doing nice work cheers!!!   *-VIKAS PANDEY (IPG 2009)*

AASF equips all the students with the knowledge necessary for laying the foundation in the world of information technology. It makes us aware of the various things that we are going to learn in the near future.The teaching methodology is very good. And overall its a nice effort..

-BHAKTI NETKE (IPG 2013)

It is something really different and a great step towards making the students comfortable in fields which are actually related to their profession in a very friendly atmosphere by peers and allowing them to become a strong stone as a future professional.

-RACHNA I BAGDE (IPG 2013)

AASF is helping us for understanding the things which come under the it branch. It is supporting students and help us for learning languages and programming.it's workshop make us able to do the things on our own. Its concepts are very good and the way of teaching is very clear and supportive. It is a actual "ABHIGYAN AND KAUSHLAM" for students. Thank you AASF.

-DIMPAL SINGH (IPG 2013)

Amortized Analysis
Divyanshu Ranjan

Meet Yudi ! He implemented good old queue using two stacks.

```
S1, S2 :: Stack

enqueue(val)
    S2.push(val)

valdequeue()
    if not S1.empty()
        S1.pop()
    else
        put all contents of
S2 into S1

    S1.pop()
```

P u **S** h
P o p u **t a c k**

Force is telling him that it is as good as queue implemented in usual way using single array. But as always force is ancient back magic, he needs concrete proof. But first we need to agree on what is he meant by as good as. If array based queue take O(n) time doing any sequence of n operations then so does his queue.

Still struggling, he met his physicist friend Jedi !. He confronted him with his problem.

Yudi : Even though, some operations does not take constant time. I have strong feeling that any sequence of n operations will take O(n) time.

Jedi : Patience ! Patience !

Yudi : One way to prove is to enumerate all sequence of n operations and then verifying n operations takes O(n) time in each case. But so many sequence !!

Jedi : Consider this configuration, Even though dequeue operation in this configuration take time ~ O(size(S2)). It will make coming size(S2) - 1 dequeue operation in constant time. So what we need to take care of is not how much actions performed in given step, but also how much kinetic energy data structure gained.Left side has lot of potential for dequeue, but right side is in motion with dequeue.Try to feel potential energy associated with queue configuration.

Yudi : I see ! The cost I am paying now is not for only present operations but also for upcoming operations. I need to distribute my cost. But what can be correct amortized cost for present operation ?

Jedi : Correct amortized cost is cost you paid minus kinetic energy you gained or potential you lost. Kinetic energy will be distributed by force. But how to assign potential energy with given configuration ?

Yudi : Can It be equal to number of items in S2 ?

Jedi : Yes. That's it. So

For empty S1, amortized cost of dequeue => $(m) + (0 - m) + O(1)$ ~ $O(1)$ non empty S1, amortized cost of dequeue => $O(1)$
amortized cost of enqueue => $(m+1 - m) + O(1)$ ~ $O(1)$.

It does not matter what is configuration of queue each operation in amortised sense will take O(1) time, so n operations will take O(n) time.
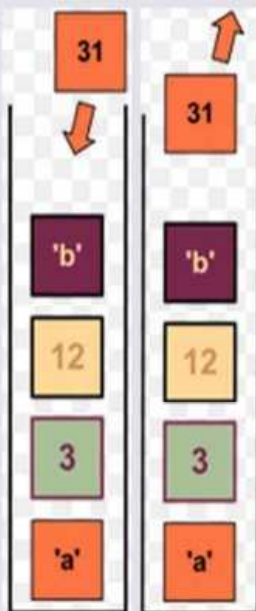
Links
[1]:http://www.cs.princeton.edu/~fiebrink/423/AmortizedAnalysisExplained_Fiebrink.pdf
[2]:http://en.wikipedia.org/wiki/Amortized_analysis
[3]:http://en.wikipedia.org/wiki/Potential_method ❖

Divyanshu Ranjan (2007IPG-21) is working for Amazon, Bangalore. He was popular with the name Qadra among his friends. He was kawalilover and amazing programmer.

Inhibitions suck, who gives a ....?
Samarth Manish

Before I start defending and glorifying the breed of us overweight lot, I must mention a politically correct statement (which I unfortunately fail to adhere to!) – working out is actually good for you. And for those obsessed with the calorie intake and the measurement of their triceps, this is the right time to abandon this article, because there is no more praise for the chiselled and the toned. For those who are either a rolling piece of dough or a skin-clad skeleton, this is a welcome relief from the regular rants of writers asking you to tone down or tone up, I promise.

First of all the philosophical reasons- everyone is beautiful, Beauty lies within, handsomeness is chivalry, not physicality- these are not the lines I just made up, these are said by some men/women who were considered wise by the masses (and were probably on the heavier side of the weighing machine themselves).

No where do I see a single mention of a biceps size being a symbol of grace and courage, or greatness or being charming. Yes, undoubtedly if you want someone's head bashed in, the pehalwaans would win, but I don't think that qualifies as being virtuoso.Also, no matter what the size and shape (and width and waist and number of ribs countable) be,one's greatness and popularity is determined by how genuine and beautiful a person you are.(Well, if you're both obese and are excruciatingly mean to people, you are in for a serious social stripping my friend. Better stop being a douche). Now screw morality. Let's come to the point. For the extremely thin friends of mine (since their points will be exhausted soon, pun unintended!), are public boasting and shirtless profile pictures more close to your heart or the 122343123 cups of coffee that you gulp daily? Do you wish to lose the thrill of getting blown away when the wind is too strong? Don't you love it when you get to sit in the prime seat of the auto-rickshaw since you take up the minimum space? And apparently more such moments which I am not able to transpire since I myself fall in the other category- the ones who are slaves of their taste buds.

Yes we eat. We eat till we burst. We eat till our intestine's abuses are audible. Or even beyond that. We love, I repeat, we absolutely love the feeling of NOT leaving the bed early to have the fresh morning air. Six packs or tandoori chicken, chiselled biceps or paneer tikka? Our choices are straightforwardly towards anything cooked in deep fried oil,garnered with mouth watering spices. We lie in the bed the whole day long, reading blogs about how obesity is killing the world, while we gobble on another packet of wafers.We excel at fifa and pro-nba from EA Sports, even though we won't bother kicking a ball lying at our feet. Best things in life are for free, and sleep and snoring top the list.

Now since while typing the above stuff, I have unfortunately burnt quite a few calories, its time for a midnight snack.I hope the night canteen is serving oil-drenched paranthas. As for the conclusion, let the debate go on, its good to have some food for thought too. As for my toned buddies, I guess its time for another protein shake. BURN!

❖

TOP Linux Distros:

1. Linux Mint

2. Debian

3. Ubuntu

4. Mageia

5. Fedora

6. PCLinux OS

7. openSUSE

LIFE STYLE

Wiktionary of IIITM

Anindya Kumar

With a cluttered mind I sat down to write a piece on 'Procrastination' but then I will finish it some other day :P

Instead I penned down a wiktionary of IIITM. No final year gyaan here, just some random ramblings and rants. Go ahead and waste 5 10 minutes of your not so valuable time reading this.

A: Attendance , we actually don't realize how lucky we are too not face all those lochas about 75-80% attendance compulsory and all.

B: Badminton: The most glamorous sport of our institute which every boy or girl try a hand at playing. "Dhal gaya din tuk .. Ho gayi sham tuk .. lala"

C: Corna , Karuna in any of its avatar is the closest thing of past 5 years the writer is attached to \म/

D: Download: All those 10Mbps, 1080P Youtube videos, unlimited online TV/footie streaming, you are going to remember it each and every day once you set foot outside the campus.

E: Engineering or Computer Engineering is defined as the study of making movies, tv shows, games and "other stuff" more readily available and to make it easier and faster to download.

F: Football: This goes out to all the vellas who find time to come to the field and 'kick some ball(s)'. Also the only sport in which we 'fairly' won in last Twaran :P

G: Gaonlior, Gawaarlior, Gayvalior, etc. ; The city that refuses to develop. Keep your grey cells in some safe storage before heading out in the city.

H: Hostel Myths: After the first part of the path breaking series receiving amazing reviews, the wait for the second part still continues. Gone but never forgotten.

I: Interaction: Ragging is definitely a crime. Healthy Interaction should be done big time.

J: Juice centre: The only source of nutrition in the college.

K: Khokha/Kallu: Because when the canteen irritates you(which happens almost daily) that is the nearest worthwhile destination to head to.

L: Likes : Kyunki jab facebook par likes lagne ki shuruaat hoti hai to apne college waalein kisi se peeche nahi rehte. 300, 400, 500.. 'been there liked that' Thoko Likes – Random Senior ;D

M: Mess food: The words in hindi literally mean 'dirty food' which coincidentally describes the condition that is served in ours and many others I presume.

N: Net aaya kya ? Because amidst 24*7 connectivity even few minutes, hours or a day of internet disconnectivity feels like agony, torture.

O: OAT: The place of all the happenings, fun, glamour and dance but only for three days in a whole academic year.

P: Parivesh☐ PMC ☐ Placement ☐ Parivaar: Self explanatory.

Q: Quila/ Kila: because one has to visit the only worthwhile tourist spot here whilst in campus. And yes don't forget to put up display pictures standing at the edge of the boundary, looking down at the city with some out of the context meaningful philosophy about life.

R: Reading Room: The new hub for everything except reading.

S: Sports Complex: It is way beyond awesome for such a small crowd in our campus (P.S.I feel for my seniors who were not able to swim, play in indoor baddy courts,

IIITM STREETS

1.Sleep.

2. Good Grades.

3. Social Life.

*Pick any two.......
Thats college life!!!!!!*

or try a hand at squash and snooker at whim)

T: Try: One gets ample chances to try their hand at everything here from ramp walking to acting, from snooker to squash, from tennis to swimming and from PMC to CS

U: Urja : The most fierce, cutthroat, competitive event of our institute where medals our won by tossing a coin :P

V: Vellapanti: Well because some things are in abundance in IT engineers, whether it be playing football between minors, finishing TV series before majors or compiling this piece before placements

W: Wikipedia: Our preceptor in the initiation and culmination of any research and a definite member of anyone's report references.

X: xercise: Its great till it lasts which is like 2 days after which your trip to gym will be once in a blue moon

Y: Years 5 Long Years : Well one can easily learn, master and teach procrastination in these 5 long years if not anything else.

Z : Zeal: Its effortless to lose one's passion, zest in a monotonous, dull environment but always remember "You have to do everything you can, You have to work your hardest and if you stay positive you have a shot at Silver Lining"- SLP

Signing off ❖

Even Google Failed

.....continued

4.Google Dodgeball

What was it:*Dodgeball was a location-based social networking service that the user could use via text message.It allowed a person to broadcast his or her location to other users. They could then meet up.*

Why was it discontinued: *Google did not specify the reason. But the service was replaced with Google Latitude.*

When: *In January 2009 Google executive Vic Gundotra announced in Google Code Blog that the company would discontinue Dodgeball.com in the next couple of months, after which this service will no longer be available.*

5.Google Notebook

What was it: *It was an application that allowed user to browse, clip, and organise information from across the web in a single online location that's accessible from any computer. It was a browser-based tool. The user could share it with others for collaboration and could also make the notebook public.*

Why was it discontinued: *On its website, Google says: "We loved working on Notebook, but sometimes we have to make the hard decision to focus more of our efforts on products and technologies that will yield the most benefit to users in the long run. With all the great innovations and improvements to Google Docs in the last few years, we think it's a great replacement for Notebook."*

When:*Google started shifting the notebook data to Google docs in November 2011 and by July 2012 Notebook was shut down.*

IIITM STREETS

Failures are important, Steve Jobs!
Sunny Gupta

Job's experiments with Pixar are considered among few biggest mistakes by Jobs!

Pixar was founded as The Graphics Group, which was one third of the Computer Division of Lucas film in 1979.But George Lucas never expected the company to ever make money on animated films, and eventually Pixar graphics was sold to Steve Jobs for $10 million, interestingly he was the only buyer present over there.

Jobs believed that Pixar was going to be the next great hardware company, not even a visionary like Steve Jobs could predict what unfolded at Pixar!Failure of Image computer and poor sales of Pixar's computers threatened to put the company out of business, Jobs invested more and more money and took more and more ownership away from the management and employees until after several years he owned essentially all the company for a total investment of $50 million.

In April 1990 Pixar finally sold its hardware division, including all proprietary hardware technology and imaging software, to Vicom Systems, and transferred 18 of Pixar's approximately 100 employees.Still during this period, Pixar was able to continue its successful relationship with Walt Disney Feature Animation, a studio whose corporate parent would ultimately become its most important partner.

Despite the total income of several products with Disney, the company was still losing money; Jobs started shopping Pixar to, among others, Bill Gates, Larry Ellison, and numerous strategic partners and companies. No potential buyer bit. It's a good thing for Jobs, and his legacy. He eventually engineered the sale of Pixar to Disney for $7.4 billion in 2006.

Numerous failed products: Apple Lisa. Macintosh TV. The Apple III.The Powermac g4 cube. Steve Jobs was brilliant about understanding how technology vectors were evolving, yet even he screwed up royally, and often. The lesson that I take from these defunct products is that people will soon forget that you were wrong on a lot of smaller bets, so long as you nail big bets in a major way (in Jobs's case, the iPod, iPhone, iPad, etc).

Recruiting John Sculley as CEO of Apple. Feeling that he needed an experienced operating and marketing partner, the then 29-year-old Jobs lured Sculley to Apple. Sculley took the bait and within two years, Sculley had organized a board campaign to fire Jobs. Jobs himself would surely consider hiring Sculley as a great mistake.

The lesson, it seems, is fairly simple: It comes so easy, people will soon forget that you were wrong on a lot of smaller bets, so long as you nail big bets in a major way! Even the great business visionaries and luminaries of our times often fail and have setbacks. Imperfection is a part of any creative process and of life, yet for some reason we live in a culture that has a paralyzing fear of failure, which prevents action and hardens a rigid perfectionism. It's the single most disempowering state of mind you can have if you'd like to be more creative, inventive, or entrepreneurial. The antidote is to try a small experiment, one where any potential loss is knowable and affordable. ❖

GEEKS CORNER

Open Source Technolgies to look out for:
1. A p a c h e Hadoop
Meant for data-intensive distributed applications, which was created by Doug Cutting.
2.R
Designed for statistical computing and visualization by Ross Ihaka and Robert Gentleman.

puzzles!

1
11
21
1211
111221

1.What is the next number in the sequence???

2.The day before yesterday is three days afer Saturday. What day is it???

```
e  c  o
b  a  b
g  b  n
d  b  ?
```

3.What is the missing letter???

4.The maker doesn't need it,the owner doesn't want it,the user doesn't know he is using it. What is it???

**5.In the middle of a round pool lies a beautiful water lily. The water lily doubles in size every day. After exactly 20 days, the lily will cover the complete pool.
After how many days will the water lily cover half of the pool?**

MURDER OF HUMANITY – SHORT STORY WITH MORAL

Gaurav Ojha

Some incidents in life can never be forgotten. One such incident happened with me when I was at Jalandhar City railway station. I had been to Lovely Professional University for a project in April this year. My return train was to depart from the station at 2 am in the morning. I reached Jalandhar City railway station at about 10 pm the previous night. Jalandhar, except for the places near the railway station, is free from any kind of hustle-bustle. It's just the railway station and the surrounding areas where you need to be careful about yourself and your luggage.

I entered the building of the station and started to look for the Air-conditioned waiting hall. I came across the common waiting hall which had a signboard saying – 'Upper Class Waiting Hall, First Floor'.

I climbed the stairs for the first floor and began searching again. Every room that I came across was either locked or belonged to the staff officers. One of the additional benefits of buying an upper class ticket in Indian trains is that you get to stay in Air-conditioned waiting rooms. Back in Mumbai, that feels no less than a spacious hotel lounge. But there in Jalandhar the very existence of that facility was in doubt.

I had been to Kolkata, New Delhi and Chennai too, and for that matter even Chandigarh, Lucknow and Surat, and my experiences had been absolutely blissful. In Jhansi, Varanasi, Allahabad, Mathura, Gwalior and Jammu Tawi, however, I had faced a similar situation.

From the first floor, I observed the common waiting hall on the ground floor. Filthy was the first thought that came to my mind. A young girl here, an old man there – people were scattered all around like inanimate objects. I am not allergic to filth. I have even travelled in second class several times. But that day, the disappointed 19-year old in me was simply a bit hesitant to compromise. Even then, somehow, I came down and decided to adjust.

The common waiting hall was large, but had not more than a handful of ceiling fans. Areas just below these fans were naturally crowded with people. After scanning the whole waiting room twice, I came across a place which was below a fan and vacant at the same time. I went ahead and kept my bags in that place. It took me some time to understand why the place was vacant. It was so because there was an old woman sitting near that place and speaking something. Everyone was ignoring her. I didn't mind and made myself comfortable in the place. The woman was constantly speaking something I couldn't really understand. In fact, I hadn't even tried to understand because people around were ignoring her as if she was a beggar. For nearly five minutes, I ignored her too. After that, I couldn't stop myself. Within seconds I realized she was speaking something in Punjabi, and repeating that. She was pleading to everyone around. Nobody really listened.

So I faced her and tried to understand what she was saying. I tried with all my efforts but failed. The only thing I could deduce was that she wasn't just another beggar. I decided to aid her.

"Jo aap keh rahi hain, mujhe samajh me nahi aa raha hai," (I am unable to uderstand what you are saying) I said in Hindi.

And the moment I told her that, she said, "Doodh. Milk…I want Milk" She spoke exactly the same words. I was shocked. The woman looked like sixty years old, and that she could speak English meant one of the following three things –

1. She was Christian
2. She was well-educated
3. She was from Varanasi (and some English just got rubbed off on her!)

I couldn't disagree to get her milk. I was a little concerned about my luggage though. So I asked her who will take care of my luggage. Her words shocked me, again –

"What will happen to your luggage?" she asked, "God sabko protect karte hain. He always keeps his children safe."

Re-affirmation of faith. How phenomenal!

Now, either 1, or 2. She wasn't from Varanasi, that could be confirmed or else, she could've spoken in Hindi too.

Alright, so there I was, with a laptop bag on my shoulder and a carry-bag, with my clothes, under the bench where I sat. I thought I'll take the laptop bag with me. The money for milk wasn't a big issue anyway; I was just concerned about my stuff. But then I thought – even if someone takes the other bag, it wouldn't be such a great loss!

I mean, I didn't think exactly like that, but I felt that the risk could be taken. I had an intuition that something rational was waiting for me at the end of all this.

I got up from my bench, and got ready to leave. Just then, to my utmost amazement, she pulled out a ten rupee note from somewhere and handed it over to me.She instructed me that the person in the ninth shop exactly the ninth one on the right after exiting the railway station, would know that she wanted milk and I should hand over the money to him and get a pouch of milk. Simple enough, I thought.

From the time I left the railway station to the time I reached the ninth shop, I was thinking of my clothes. Not just my clothes, I was thinking about everything. I was over-stuffed with thoughts. I was getting impatient. I wanted to know why that woman was sitting there in the first place. I wanted to know why nobody was paying attention to her even though she could pay for her stuff and just wanted someone to get it.

The person at the ninth shop brought me some relief. He agreed that there was an aged woman at the railway station who bought milk everyday but never came to him by herself, and always sent someone else – someone different – everyday. Then, a little satisfied, I came back at the railway station and nothing had changed. My bag was there. She was there. Everything was just the same.

I handed the pouch of milk over to her. She was happy. I was happy too.

But the story doesn't end here. In fact it begins here.

Why do you think were the people ignoring that lady? (I'll call her lady and not woman because I know who she was)

In modern India, people just pretend to be too busy in their lives. They pretend so much that they don't understand for themselves if they really are busy or not. Because of this they ignore many things that keep happening around them. People don't want to think because their brains are void.This is quite hurtful to me.

Back to the story, she told me that she had been staying in the same waiting hall for the last four years. Originally from somewhere near Mathura, earlier she was at Mathura Railway Station, but the police officials there didn't allow her to stay. She reached Agra, and travelled further up to Delhi. Seeing the totally impossible conditions at Delhi, she moved further north, in whatever train she managed to board, and reached Phagwara – south-east of Jalandhar – but was made to leave from there too. Finally, she found home at the Jalandhar City railway station. The police officials there were kind enough to allow her to stay there. She had some problem with her right leg because of which she couldn't walk for more than a

Did you know????
1.*85% of plant life is found in the ocean.*
2. *The Hawaiian alphabet has 12 letters.*
3.*The smallest bones in the human body are found in your ear.*
4.*Switzerland eats the most chocolate equating to 10 kilos per person per year.*
5.*African Grey Parrots have vocabularies of over 200 words.*
6.*The Grand Canyon can hold around 900 trillion footballs.*

LIFE STYLE

minute. So she seldom moves from that place in Jalandhar. Every morning she gives twenty-five rupees to a stall owner at the station who gives her two simple meals. She needs medicine which comes for about ten rupees a day and she takes milk for another ten rupees. That makes it nearly fifty rupees a day. That's all she needs.

Some rich and kind people had gifted her clothes and beddings on festive occasions and so life in the chilling cold of Jalandhar had become much easier for her that what it was when she had arrived from Mathura, four years ago.

She belonged to a rich Hindu family with three children. She did her masters in English literature from Delhi in probably the 60's. Her children abandoned her after her husband's death. Two of them are doctors and one is a lawyer,from

what she told me.

She had a plastic bottle of water (like the packaged ones) with her, which she had to ask random people to refill every time it was empty. She begged, simply. She begged only enough to satisfy her needs for a day or two.

Did she have any regrets? None. She didn't blame anyone for her condition. In fact, she mentioned that it must be the karmic result of her activities from her previous birth. I am definitely missing some parts of the story, but I don't remember every detail. We had talked for nearly two hours and then she took her medicine and slept.

I was amazed, awestruck and a little embarrassed too. People around were looking at me as if I had kissed an untouchable! At 1:30 am, I came outside the waiting hall. I was having a deep and intense desire to give her some money and fill water for her.I went to a stall to buy mineral water for myself. I couldn't just ignore that feeling. It was similar to

guilt.*"Why do you have to think about people there,haven't you helped people earlier?"* my conscience pricked me.

"Bhaiya, give a normal one too," I said to the vendor at the stall, asking him to give me another bottle of Bisleri which wasn't chilled. I took the bottle and went back to the waiting hall. Within a moment, I found myself in front of the bench where she was sleeping. I didn't want to wake her up, but what if someone else takes the water and money that I was about to give her?I felt it could help her for a couple of days at least…

I don't know why I did that, but I felt really good.I didn't mind what the onlookers would've thought.

Dear readers, if any of you happen to visit Jalandhar City railway station it is my request that you meet the lady once.

It is the duty of the young generation to care for the generation that brought them up. ❖

L I F E S T Y L E

"The Programmer's Joke"

Q: How many programmers does it take to change a light bulb?
A: none, that's a hardware problem

Two bytes meet. The first byte asks, "Are you ill?"
The second byte replies, "No, just feeling a bit off."

A SQL query goes into a bar, walks up to two tables and asks, "Can I join you?".

Q: What do cats and programmers have in common?
A: When either one is unusually happy and excited, an appropriate question would be, "did you find a bug?"

There are three kinds of people: those who can count and those who can't.

Want to see my Red Hat?

Gone are the days when politics was perceived as business of uneducated. The change in the perception is due to continuous efforts of education system and agencies like Amnesty International, United Nations – and many more.

YOUTH POLITICS

And yes do remember to cast your vote as it makes difference.

Youngsters taking to the streets as part of Anna Hazare's anti-corruption crusade in 2011 or protesting against the violence on women after the 2012 Delhi gangrape reflected their growing angst over social problems and an increasing trend

It is required that one should know what is going on around him, for that he must be politically aware.

I want a safe environment! I want cleaner roads! I want that poor should be educated! I want cheap Foods!

R FACTOR

We didn't let go any moment without complaining about system. Who will bring the changes?

SOME QUICK FACTS

World Values Survey conducted by the World Bank showed that the proportion of people aged 18–24 who identified themselves as "very" or "rather" interested in politics was around 50%, an increase of 15% since 1990.

In 2004, 50% of the Indian population was aged 30 years or younger; however, only 35 out of 543 Lok Sabha members (6%) were aged under 35.

All major political parties have youth and student wings, such as Indian Youth Congress, Akhil Bharatiya Vidyarthi Parishad and Democratic Youth Federation of India.

CDS SURVEY

The youth's political participation in terms of attending rallies and campaigns is on the rise, according to surveys and data collated by the Centre for the Study of Developing Societies (CSDS).

Nearly 71% of urban youngsters showed interest in politics in 2011 as compared to 45% in 2009, according to CSDS. Education appeared to evoke greater interest, with collegians keener on following political issues than uneducated youngsters.

Friends Fun & Dreams

Abhishar is a good friend of students. He listens to their thoughts and experiences. Abhishar tries to chalk out easy solutions for students' problems. They feel motivated on talking to him to showcase their hidden talents. Personally, I feel he carries with him a very positive air and is capable of spreading happiness around. And I'll try and make all possible efforts to help him with this splendid companionship with you.

I would like to express my gratitude to Mr. Manuj Tiwari, IPG-2010 and Mr. Sai Vivek Kanaparthy, IPG-2011 for their valuable efforts in realising Abhishar and his friends in "Friends Fun & Dreams". We couldn't have done it without them.

TEAM AASF
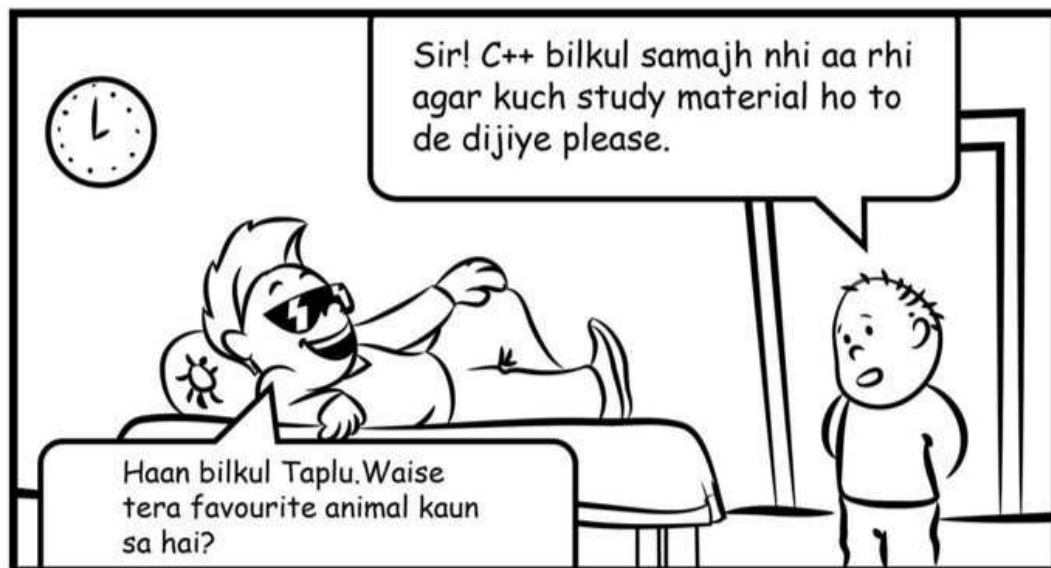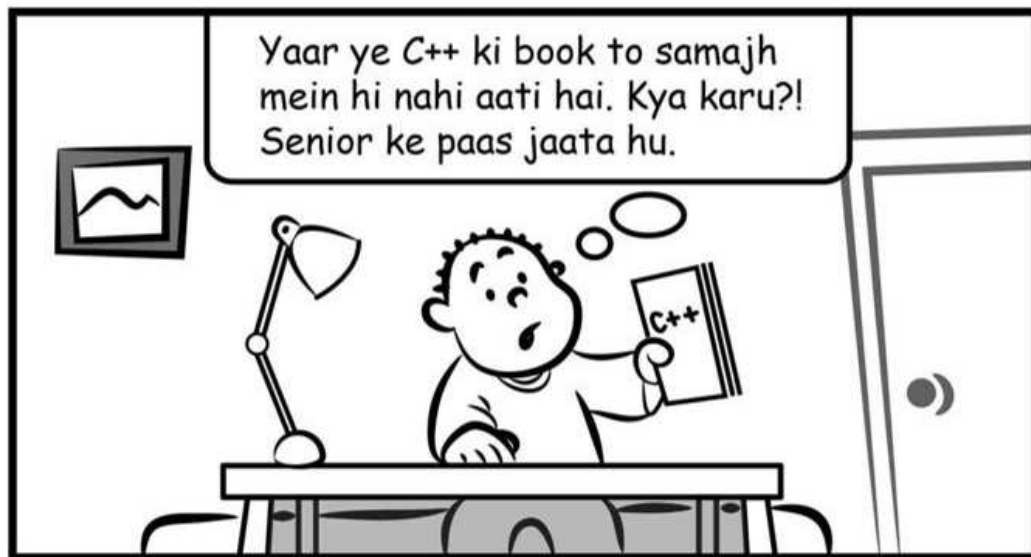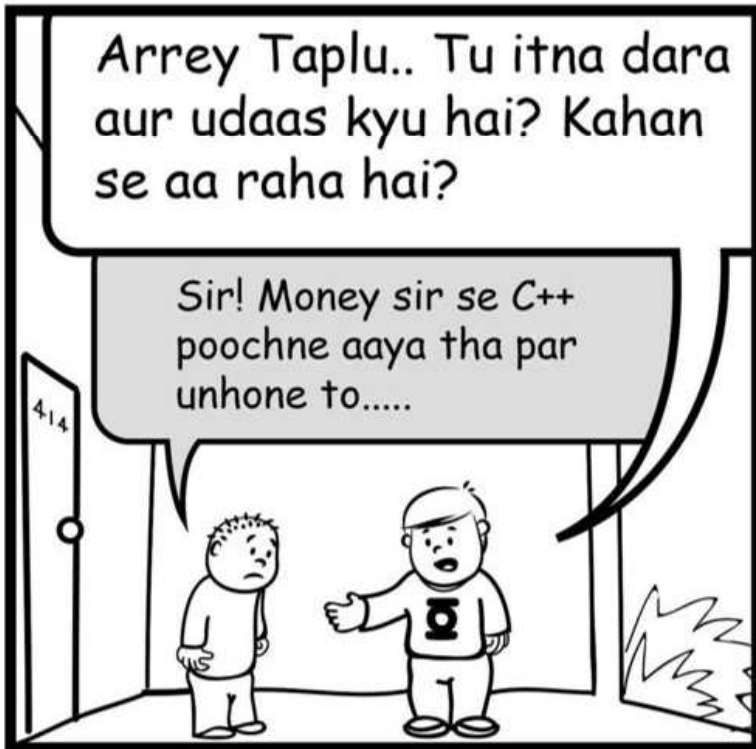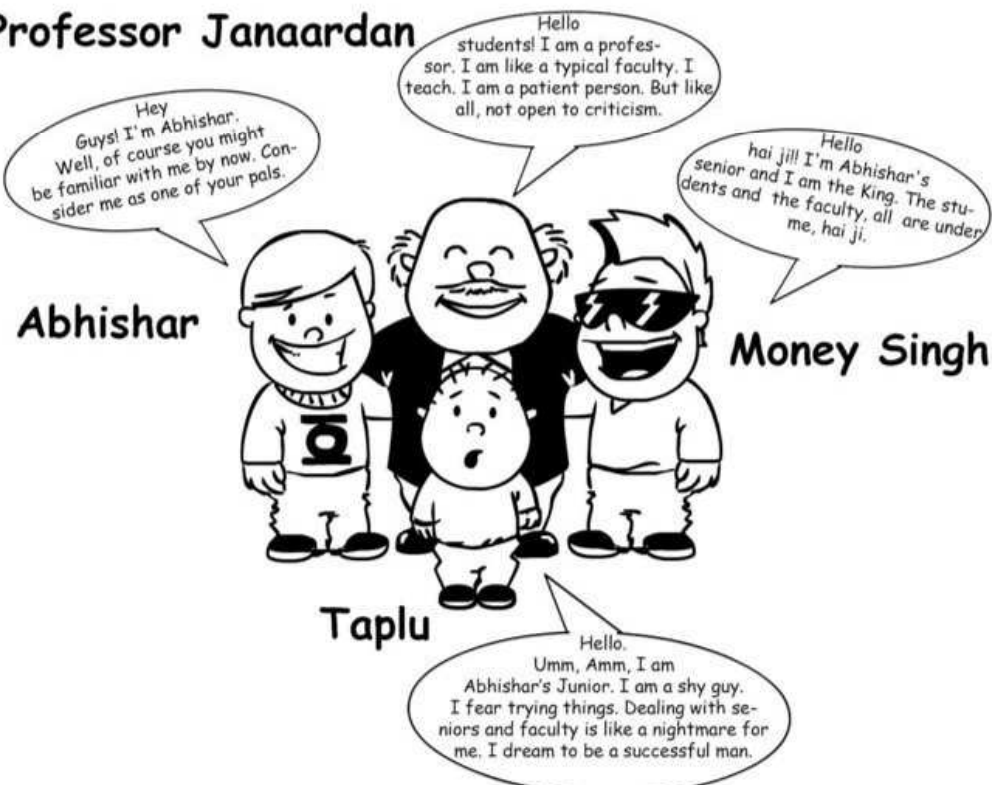
THINGS YOU SHOULD'VE KNOWN IN COLLEGE
Satyanarayan Rao

First I was thinking writing some good memories of IIITM and then I thought keep that aside and come to the real point. So this article is not going to have any fancy start and some fancy end. Let me begin with my introduction, I belong to the group of people who just gave AIEEE exam got good rank and then thought "Okay CS/IT is good for future(good salary/perks) so lets go" for that, that is how I entered IIITM, and one more reason that I'll get dual degree in 5 years. I believe I can see myself in some you, well only those are not my target audience. Through this article I want to share some of the experiences of education system that I have had here since last year.

Starting with some of the very basic nature of student, the "Respect", "Honesty" and "Integrity". People here are very particular about this, they can discuss problems in a group but will never copy from each other, they would rather hand in that questions empty. Most lecturer here prefer chalkboard, and in one lecture at least there will be 10-20 questions, some of you may say its dumbness, well people here accept that I did not understand so I need to ask then and there. Unfortunately it was not the case when I was in IIITM, and I too was being part of it. Then I think back, we all were not like this when gave the AIEEE exam, we all were all smart and then suddenly we see this change in life. Of course some of the changes that we come through in engineering life are the best ones (like watching movies, games and many more things which I should not mention here), but please try maintaining that above two. Do not care about others what they think about you and tell you "Dekh hero ban raha hai, lagta hai agla einstien yahi hai" let them say that "Just ignore that".

Never help people until they ask and you should see that how much efforts he/she has put in before asking. Helping someone simply makes them weaker. Please do not waste your time in lecturing about negativity of other people around you (faculties/ other students), the Institute, and as result at the time of placement somebody is being hired for you to teach you how to walk and talk in front of interviewer (from TCS and similar companies. At least this was the case when I was there) you do not have time for that and you guys are much better than that I do not have to tell you that. On the contrary you can watch numerous online educational videos and I am sure you guys must be knowing coursera, ocw mit (watch Gilbert Strang linear algebra), video course on probability (from Harvard), *these you can easily do in your summer vacations*. And the happiest news is you have your own streaming server "nptel videos".

Do not be in a illusion that knowing PHP and html is great thing (these are add-on to your skills), Make your core subjects strong (Algo, DS, DB, DSP and Mathematics). Please Please do not google for solutions of core subjects problem. Do it on paper, white-board. I strongly suggest everyone of you to buy one white-board

At the end of 5th year no one is going to help you get through the

Post-Independence Milestones

1. *1951: India gets its first IIT Set up in May 1951 at Kharagpur.*

2. *1952: Indian masses feel the first fragrance of freedom as they cast their votes in the first ever General Elections of the country.*

3. *1952: India win the first-ever Test against the Pakistan cricket team in Delhi under the able leadership of Lala Amarnath.*

IIITM STREETS

interviews, you have to face it and be prepared for that, Dream for your own ideas implementation, google, microsoft, and R&D companies! go get that, its not easy but you know you can make it. Many reader going to call me "aa gaye funda dene waale", well I accept that "agar isse kisi ek ka bhi accha ho jaata hai to my message is conveyed" and I do not care whatever you call me. Play games "be it computer or outdoor/indoor", well I am an indoor and outdoor player and a good Hooter (yeah I take credit for that, most of you may not know this but 5th year guys must be knowing it). Do not try to prove someone that I am good. You know that you are good and move on with that, people who knows what you are and what

you are and what you can do, they will respect you. I remember when I sat on microsoft's interview, it was second round, they said "Being an computer engineer you should breath Data Structure and Algorithms". And this is not a joke, you have to work hard for it, try enjoying these subjects from beginning of the year. Do not be afraid of system, fight for your rights, that is how we got our lab with 5 - 10 PCs. Do not accept any thing by saying "Hmm, Hmm" ask them "why, how and what". These three words I have learnt here. I was also a "Hmm Hmm" guy! Do not even accept when the canteen wala charge you overprice on chai or paranthas ("Unki aukaat nahi hai", go and see IITs and IT/BHU, how they respect and serve food, I am not saying that you follow IITs tradition, just make them do how you guys want them to do). I wish faculties would have had a motivation of having lunch at our hostel mess, then they would see what we eat, and why not, this way our mess can improve a lot better. Be the change you want, save electricity turn off the light when you leave from your room. I did give an idea of putting chocolate in class and guys who turned off lights on the way coming to class can have those. At last I do want to share some good memories. IIITM gave me enormous opportunity to help build what I am today. The best part at IIITM was TT and lab nights. The two basic nature of student mentioned above developed by playing sports at IIITM with my guru Devesh Kandpal (one of the best sportsperson and good person I have ever seen), and some of the fights with the system are also cherisible like going on denial of

mess food to change the contractor, fight for drinking water in hostels (bahut ladayia ladi hamne aur hamare seniors ne). Running for the guavas in the garden in front of Directors building is also memorable.

"Ek baat yaad rakho, campus se bahar aaoge to bahut busy ho jaaoge, to jo freedom hai, do at least two things 1. Start liking at least one subject till 3rd semester and go deep into that 2. Be a master of at least one extracurricular activity(be it reading, playing, music etc)".

Be a warrior/amazon, I never wish any of you guys crying for even get a job in TCS and related companies(IIITM does not deserve that). I look forward to the day when you guys go to give minor then by default instructor see one seat blank between two guys. And I also look forward to see every room have one white board hung on it (Buy It, no matter which year you are in. It will change your life). Make group of four-five people and discuss problems.

At last I want to thank AASF for creating good environment at IIITM. ❖

Satyanarayan Rao (2005IPG)
After completing his post-graduation for IIITM he join an IT company and later on joined SCFBIO at IIT-D as Jnr. Research Fellow. Now a days he is pursing Ph.D. from University of Southern California, LA, California.
Everyone calls him Satya, he served his service as system administrator for 2 years and he is more or less a of Labs.

Post-Independence Milestones
(..Continued)

4.1965: India establishes the Space and Technology Centre (SSTC) in Thumba, a fish village near Thiruvananthapuram.

5.1967 to 1978: The Green Revolution transforms India from a nation on the verge of starvation to one with overflowing granaries.

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The simplest proposition requires three things to complete it; viz., the subject, the predicate, and the copula.

Two straight lines cannot possibly enclose any space, or form a plane figure; neither can two plane surfaces form a solid. Three lines are necessary to form a plane figure.

All things that are especially complete are stamped with the number three.

If the number of petals on a flower is a multiple of three, it is probably from a group of plants called the monocotyledons.

In Greek mythology one can fin--d Cerberus, a three-headed, dog and Scylla, a sea monster with six heads. It is curious that mythological heads are inclined to come in multiples of three.

The first number, according to the Pythagoreans, and the first male number.

Three is often the largest num--ber written with as many lines as the number represents. The Romans tired of writing 4 as IIII, but to this day 3 is written as three lines in Roman and Chinese numerals.

A.J. Meyl proved in 1878 that only three tetrahedral numbers are also perfect squares, namely
$T1 = 1^2 = 1$
$T2 = 2^2 = 4$
$T48 = 140^2 = 19600$.

According to Pythagoras and the Pythagorean school, the number 3, which they called triad, is the noblest of all digits, as it is the only number to equal the sum of all the terms below it.

Only number whose sum with those below equals the product of them and itself.

Interview with Akash Gautam

Akash Gautam is the best India's Best Corporate Trainer and Motivator for the last 15 years in Retail, Insurance, Flying, pharma, fashion and Telecom. As a Motivator & Personality Development Trainer; he has delivered sessions all across India and in institutes of high prestige.
Here is an excerpt of his interview on his visit to the the institute.

1) You switched your career from fashion to being a motivator; what made you enter in this completely unique stream?
Ans) Frankly my first two jobs clearly told me that being a fashion designer was not my stream; and definitely my love for speaking and communicating brought me where I am.

2) You have motivated a diverse set of people (even beauty pageant contestants to "Tihar jail" inmates).Which set of people did you love to guide the most?
Ans) Students according to me happen to make the best audience because of their energy, ability to accept; they've always been a pleasure to be working with.

3) "Motivating" is a tough job. What do you keep in mind while motivating people?
Ans) Well according to me motivating is very simple just the person ahead should be in sync with me.

4) Whom do you consider as your motivator?
Ans) The people I work for motivate me the most because they help me remind whom and for what cause I work for.

5) What according to you would be the perfect "success mantra" for the students like us?
Ans) There is no "Mantra" just your readiness to face your battle and constantly moving ahead attitude

6) How do you see social media platform in next five years?
Ans) Social media contributes today 15% to coca cola's profit where 5 years back the state was just 0.5%; so definitely I made the point about how much this field is going to expand.

7) Which type of songs do you prefer to listen?
Ans) Spiritual songs are my preference because I am a firm believer of the almighty.

8) If given a chance what would be the message you would like to send to the politicians of India?
Ans) I got my seat shifted from next to a politician in my recent flight. Personally neither I nor the mob would give it a damn to these politicians if they continue being as they are.

9) Being an Indian, one duty you expect each Indian should carry out?
Ans) Love and take care of yourself, protect self from being a corrupt, an addict or anything that damages your soul; the nation will definitely be far better with this little effort.

Interview with Sanjay Singh

Mr. Sanjay Singh is the current Managing Director at Yamaha Motor Solutions India.
He has earned a Master's degree in International Trade from Indian Institute of Foreign Trade and experience of 18 years in Sales & Customer Delivery in terms of value delivered to customers, business performance, and organizational efficiency.
Here is an excerpt of his interview on his visit to the institute.

1. Post placements how do you judge the students' force of ABV-IIITM ?
Ans) ABV-IIITM is a college where we really loved the fact that students are far more transparent and very humble regarding their skills and knowledge..

2. What were your basic criteria for selection of students?
Ans)We search for a proper blend of technical, communication and managerial skills of an individual; also their wit, presence of mind as considered.

3. One plus point and one negative point that you found out in our students and any suggestions for their improvements?
Ans) We've already mentioned the plus points of students but one thing I would personally like to highlight is we found that a very few students only here have industrial exposure.

4. Is the expected falling economy going to affect IT department more than other trades?
Ans) The falling economy definitely is going to affect the IT department but then the software companies will even then be progressing.

5. YMSI is a very big brand name; what are your main strategies for the market competence?
Ans) YMSI is still an emerging body. Our facilities have already spread to 65 countries and our main focus is that we spread to the rest 65 countries.

6. An experience of your professional life that was a turning point for your career would be---
Ans) I started in this profession because one thing we've personally come across is a lot of 'Scarcity'. I definitely were not born with a silver spoon in the mouth and that is why it made me so strong and focused to be something in life. It is always that straight 'The more I faced, the more determined I moved ahead'.

7. How do you think internships benefit students apart from the office scenario acquaintance?
Ans) Internships are not limited to the office scenario acquaintance; they are a huge and eminent part to construct the professional part of any individual. Anybody who is already exposed to the industry is far more prepared and acceptable to any firm or industry rather than picking up an amateur.

8. What fields according to you would be beneficial for students to dive in, in terms of future perspective?
Ans) Agriculture, environment sciences, energy generation are expected to be the areas of better prospects in some years from now.

9. it's the placement season; your word of advice to our competing college mates?
Ans) Do not be inclined on picking up mainstream projects is my advice to you students, the more creative, deep and innovative you go for your projects can be very helpful in placements.

The Unusual Torrent
Shubham Agarwal

It could be among the most obvious business plans ever: provide a platform to share people's files online so they can access them anywhere. We spend most of our time accumulating stuff and once we have gathered enough stuff, we find places to store all of it. Finding enough storage space to hold all the data we have acquired is a real challenge. Some of us invest in larger hard disks, some prefer external storage devices. While some choose a better option: peer to peer file sharing.

Peer-to-peer file sharing is different from traditional file sharing. In peer-to-peer sharing, we use a software program (bittorrent) or Web browser to locate computers that have the file we want. Being an ordinary computers, as opposed to servers, they are called peers. We run the software and send out a request for the file to download.To locate this file, the software queries other computers that are connected to the Internet and running the file-sharing software. When the software finds a computer that has the file we want, the download begins.

I've been hearing about BitTorrent for atleast three years. It's an exciting technology in principle because it solves traditional central repository file distribution problems, uses peer-to-peer (P2P) file sharing technology and it's written in Python :D.But many people still don't seem to understand how it works. Not surprising, I suppose, since on the surface, it sounds impossible, it's actually a pretty simple idea.BitTorrent is a protocol that offloads some of the file tracking work to a central server, i.e., tracker. In order to receive files, we have to give them. This solves the problem of leeching. With BitTorrent, the more files we share with others, the faster the downloads are.Finally, to make better use of available Internet bandwidth, BitTorrent downloads different pieces

of the file you want simultaneously from multiple computers. Let's have a look how it works –BitTorrent client software communicates with a tracker to find other computers running BitTorrent that have the complete file, i.e., seeders and those who are usually in the process of downloading the file. The tracker identifies the swarm, i.e., connected computers that are in the process of sending or receiving the file. Our computer receives multiple pieces of the file simultaneously from the computers in the swarm. If we continue to run the BitTorrent client software after our download is complete, others can receive .torrent files from our computer.Thus, our future downloading speed increases because we are ranked higher in the "tit-for-tat" system.

BitTorrent is great, but requires a special software to be downloaded. What if we have a web-based platform for filesharing that everyone with a modern browser could use even our parents.

Sharefest has made the file sharing so simple that anyone with a Web browser can share content in seconds. Open sharefest.me and drag and drop a file to the page in the browser. A link will appear and the downloading starts, simple isn't it. Simplicity aside, let's talk about how Sharefest works. Sharefest operates on a mesh network as of a BitTorrent using peer-to-peer file sharing methodology. Files can be

GEEKS CORNER

TOP 10 DOWN-LOADERS:

1. BitTorrent
2. Free Download Manager
3. µTorrent
4. JDownloader
5. YourFileDownloa-der
6. wxDownload Fast
7. SPEEDbit Video Downloader
8. eMule
9. FTDownloader
10. EA Download Manager

shared with many people at once and the technology can swarm to speed up transfers, just like BitTorrent. It's Open Source and apart from a Web Browser, no additional software is required. Sharefest uses WebRTC (Real Time Communications) Data Channels, a set of API components that can enable browser-to-browser communications such as videochat, VoIP calling, and peer-to-peer (P2P) file-sharing, all within the browser, based on pure javascrip thus no need for a plug-in. WebRTC was developed by Google for Chrome and Mozilla Firefox 22 includes WebRTC.

Once we drop a file on the browser, Sharefest creates a dynamic url that is used to get the file directly from your browser. The browser will serve the file temporarily, as long as we keep the tab open. When users enter this unique url, they will start receiving pieces of the file and help others. Sure, we could use Dropbox, or even BitTorrent sync to do the same thing, but with Sharefest we don't have to install any software, no account registration. There is no centrally located server on which file delivery depends. And once other users download the file, they can expand the network as well, providing additional peer-sharing power.

Suppose I want to share a file within my batch, how does that work? There is a tracker like BitTorrent for peer to peer transfer who swarms to share the data and speeds up downloads. There's a swarming technique, and mesh networking. The tracker decides who is connected to the sharing computer. The Sharefest tracker doesn't need to know the IP addresses of peers. For the connection between the peers, the tracker sends the relevant peers a message through a WebSocket channel. They then start a standard WebRTC handshake – SDPs (Session Description Protocol) which describes the local peer capabilities that are sent through the server, and then they start talking with the STUN server. The STUN server help the peers to create the real P2P connection, overcoming firewalls and NATs.Now you might be having a doubt, why Sharefest? First, we have file security, i.e., the shared files will not be stored anywhere and not even sharefest.me can access the shared files. Secondly, the sharing is anonymous. Sharefest does not track the users. There is no need to sign up . Moreover, there is no need to wait for the file to be uploaded. On local networks, because the files are transferred peer to peer, there is no need to use the Internet, which means less traffic on broadband, and more importantly, very fast . speeds. Sharefest indeed an unusual torrent. ❖

Abhishek Tomar
tere saath chalne ki hasrat..!!

durr kyun gaya tu,
judaa aise hua kyun...
akela in raahon mein chhodkar,
tanha sa kar gaya yun...

baatein vo teri,
aaj bhi bhula nahi hun...
chhoda tune saath jahan,
tuje yaad karke roya vahin hun...

teri vo hasi,
yaad aaj bhi aati hai...

aur fir se ye zindagi,
tere saath hasna chaahti hai...

zindagi to abhi bhi,
bas chal hi rahi hai...
par tere saath na hone se,
ismein aaj bhi kuch kami hai...

isliye ek zindagi aur tere saath,
tamanna hai bitaane ki...
kuch jo is baar adhoora reh gaya,
usko poora kar jaaney ki...

GEEKS CORNER

Amazon Interview
Himanshu Srivastava

It was 22nd of July 2013 when Amazon was about to visit our campus for the first time. After the interview process of flipkart which took place just two days ago it was really challenging to appear for this company. Flipkart was the first company of this session which visited our campus and the first interview I had was on Skype with them. The interview process was good and I was able to made to the final round, but still don't know the reason why I got rejected, may be it was my first interview on Skype and I got nervous. There is a big dif-ference between face to face and Skype interviews and you should be prepared for both.

Well coming to the Amazon Campus Recruitment Process. The first round was scheduled to start at 8:00 am. The company had no CG criteria and all were appearing for the first round. We all were dressed up in formals and reached the venue at 7:30am.But sometimes we should never forget that IT Company doesn't wake before 9am and that is exactly what happened. The Amazon team came to the Labs at 9:15 and because of slow internet the first round was split into two parts.

The first round was about 45 minutes and consisted of multiple choice questions of Data Structures, C, C++, OS and Aptitude. The round was relatively easy and about 40 students were shortlisted after the first round. You need to be clear about basics of C, C++ and Data Structures to qualify this round.

The next round was coding round, which was supposed to be taken on Interview Street but again because of slow internet connection that day it was changed to written round. There were two questions: First question was to check the validity of the Sudoku game i.e. the numbers in the matrix are filled as per the Sudoku rules. It was a simple question and an $O(n^2)$ complexity was enough to solve. Next Question was to calculate the length of the longest path in the binary tree from root. The question was good and we only have to code the main function. The round was about 45 minutes and as it was written you have to explain your logic as well as comment wherever possible for better understanding. But it was good luck that it was written had it been on Interview Street the results of the round would have been different.

After the round around 2:30pm Amazon Members gave the presentation about the company in the auditorium and the results were announced. 16 Students were shortlisted for the Interviews. There were two technical Interviews and a HR round.

THE FIRST FACE TO FACE:
After a brief introduction the interviewer gave me three questions. Complete code of the questions where required. The questions were
1. You have been given a binary search Tree and you have to find the inorder successor of the given node. The question has various approaches I told them the one with the use of Stack having best time and space complexity. The interviewer was very helpful and gave me test cases to cross-verify till I made to the perfect solution.

2. Next question was given a string and a map of character to strings. You have to replace the characters in the given string with the corre-

CAREER MANTRA

-sponding string given in map.
For example:
MynameisHimanshu.
I have to replace $ by "123" and the new string would be
Myname123is123Himanshu.
No extra memory to be used and also assuming string was given as a character array of sufficient size and after replacing, the length will not exceed the size of array.

I told them the approach where first we shift all characters of the string to the end of array and replace and bring them One by one to start. It was a great relief when the interviewer said that it is the perfect code.
Then he asked me some questions about hashmap which I used in my code.
3. Next question was given large number of points in a 2d plane and you have to tell maximum number of points which are collinear. This question was a bit tough to code with minimum complexity. I told them the approach and the interviewer was satisfied with approximate $O(n)$ complexity approach and

didn't ask me to code.
The round went around 40-45 minutes and I was very happy because the interviewer was impressed.
After half an hour I was called for second Round. Out of 16 ,six were shortlisted for the second round.

THE SECOND FACE TO FACE:

The interviewer was very straight-forward and directly gave me two questions.
1. First question was given a link list you have to sort it with minimum time complexity.
2. Second question was given a binary tree and you have to find the path having maximum sum from the root. If there are two paths having the same sum then you have to print the path having maximum number of edges.
I suggested top down approach adding an extra variable in the structure of tree to keep the count. However he was not satisfied and forced me to use bottom up approach and a Data Structure. Finally I coded the function part with the use of about three stacks. The code

was bit complex but he was satisfied and understood the complete logic.

Next he asked me some question about Computer Networks and Operating System like
What is thrashing?
What is virtual memory ?
Various algorithms for page replacement?
Difference between process and threads etc.
The round went around 45-50 minutes but I was quite confident after the round.

After about 1.5 hour the HR called us .There was no HR round just a bit formality and finally HR said "Welcome to Amazon". What a relief it was ! I was very tired from the hectic schedule whole day but after results I was energized again.❖

CAREER MANTRA

The days that amounts to 5 long years......
Yesoda Bhargava

There has been a transition. Transition in me, the way I used to be, the way I am today and I am sure in times to come there will be more fruitful transitions, empathies and lessons. Spending close to 5 years over here in Gwalior has had a miraculous effect on me and I am still grateful to it, though there remain few "I-wish"s "What-if's. I have come out of my reticent behavior, became slightly practical in my perception of things which has made me feel a peaceful freedom within. ABV IIITM happened for a reason, and though that reason is difficult to describe over here but I can feel it every time I introspect and contemplate about the time spent here. There has been an evolution and I think I have become more involved with life around and that has had a huge impact in my though process. I see the new entrants and when I just look at them I find an altogether new variety, much more ingenious than I was in my age that time, much more aware and happening. That gives me energy, young talented faces.

Hostel life has been an important part of this time. It's been peaceful, conducive to growth and just perfect, barring fluctuating water supply problems. I never really had any problem with food on chronic basis. Friendship found a place in my dictionary after coming over here. But the biggest event that has happened is a realization. A sound realization that I am here due to sacrifices of my mother and pains of my father. Distance made me value my mother and slightly understand her and feel the responsibility, though not much of the feeling I convert into working. I remember my mother telling me every time I got ready to come over here, "Don't indulge in any immoral act" and "Don't forget what is right and what is wrong in emotions". The most beautiful thing about hostel life is that it exposes your soul to yourself; you come to know of what you are as a person. It tests you on a consistent basis.

There have been excellent additions to the already fabulous infrastructure of our institute. I wish I could avail more of the sports complex, state-of-art seminar halls (SH-3 gives such a great feeling to be in), swimming pool. The lush green campus, I do not know when again I would find myself in such a beautiful place like this. Though the blood in me has already started dreaming of the life after here, the roots sown in 2009 still take me closer to the memories..

I was never an avid reader, nor did anyone instill in me any passion to read books; that developed here on its own. I have managed to carve out a good collection of books in my room in these four years. That is another great thing that has happened.

This life can either make one altruistic, disciplined or indifferent to life; the choice is in your hands.

A part of me will always miss this place.

(I could not think of any better theme to write upon in this issue of the wonderful venture ABHISHAR.) ❖

Did u know?????
1. College enrollments continue to grow every year since 1995.
2. 21+ million students were enrolled in the year 2012.
3. Math-intensive science and engineering jobs are outpacing job-growth by 3:1.
4. 30% of all college st udents take at least one class online.
5. 60% students are atending their first choice college.

IIITM STREETS

Why do I eat Chicken!?
Shaurya Rohatgi

Well! I am going to be very honest about my opinion on eating chicken.

"Why do you eat chicken?" is the first question asked to me when I tell a vegetarian that I LOVE eating chicken! I have seen many vegetarians who have better physique than the Non-vegetarians. I don't think eating chicken has done any good to me. I am eating chicken ever since I remember and I am a very skinny boy. In fact, if you see me you won't believe I am a chicken eater.

The first thing that comes to my mind is that chicken has no effect on my health and it doesn't help me get fat, so why do I eat it and be the centre of everyone's criticism. The reason I give those people is that if we don't eat chicken then there would be more chickens in the world and soon they will overcome the human population. :P

I often get taunted with statements like "There is enough vegetarian food to eat, why kill innocents?" To which I reply "If we don't eat them there will be no Vegetarian food left for you to eat: P".

I know this is the LAMEST excuse! But what else do I have. So one day I got into a great self- assessment thought and finally came out with "IT'S VERY TASTY!!".

That's it! The only reason I eat chicken is that it is delicious. So I may go onto any extent to defend chicken-eating as not wrong. I may give stupid reasons like what will happen to the poor people like butchers and people owning poultry farms if we don't eat chicken. Also if people like us will not eat chicken then all the live chickens hen which were brought up to be roasted or fried will go waste. (They will not fulfill their purpose! :P)

I hate people who eat omelet and say proudly "I AM AN EGG-ETARIAN!" .When I first heard this term I was like "You've got to be on one side of the line Vegetarian or Non-Vegetarian." After all even chicken was once an Egg. So if you have eggs for breakfast, please proudly call yourself a non-vegetarian because that's what you are. And accept the fact that you eat chicken because you haven't tasted anything as delicious as CHICKEN! :D ❖
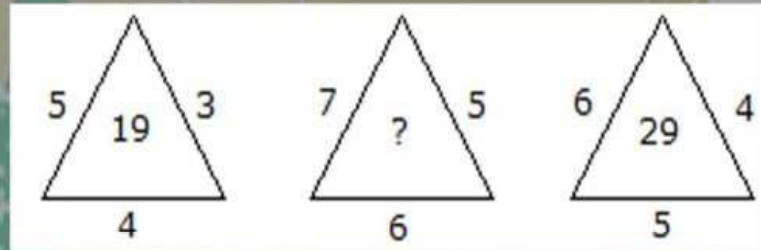

What came first? The chicken or the Egg...
Me, me, me!
No, it was me!
...they're still racing it out!
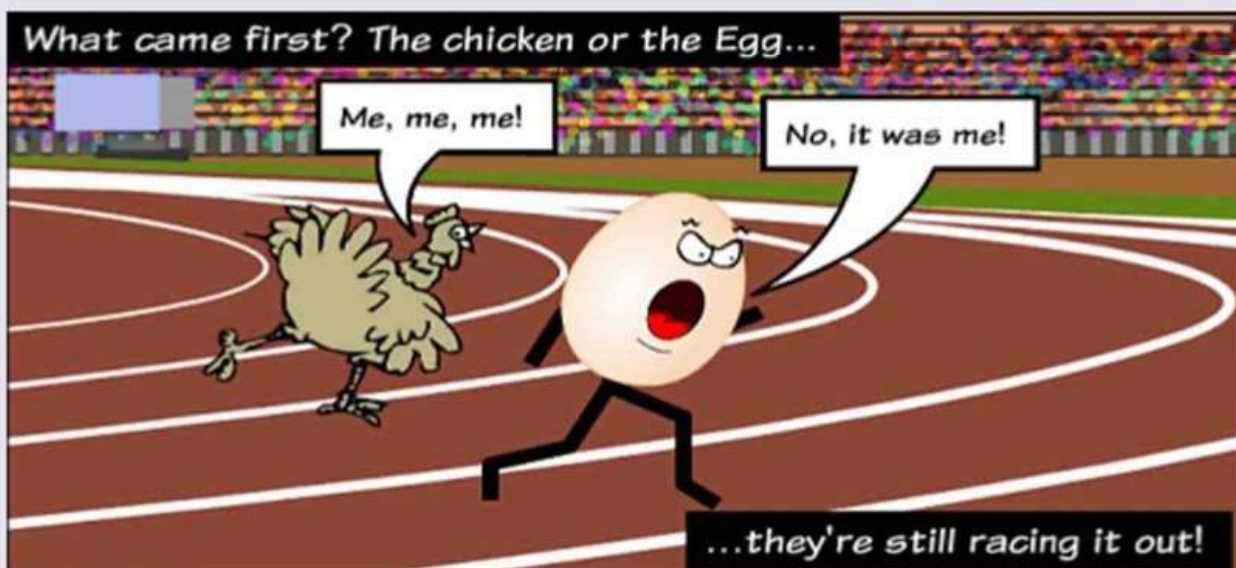
puzzles2

1. My successor's father is my father's son, and I don't have any brother or son. Who is my successor?
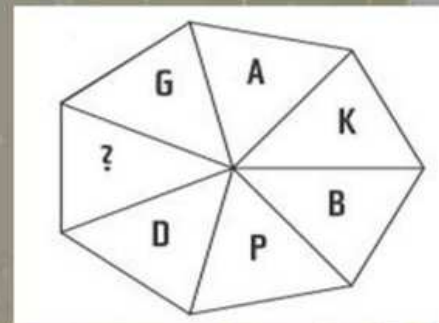   a) Nephew   c) Daughter
   b) Niece   d) Myself

2. What number will replace the question mark????

3. If you are in a dark room with a candle, a wood stove and a gas lamp.
   You only have one match, so what do you light first?

4. Which letter will replace the question mark???

Syntax v/s Logic
Prateek Jain

Over the course of time, two types of group have emerged in programming. One who emphasis on learning the syntax and structure of any programming language, and the other one who lay stress on developing the ability to form a general logic. As syntax and logic both are, most of the time, mutually exclusive, and in a way one completes the other, so both are of paramount importance in the programming world, and we can't deny the importance of both. But, on which aspect one must give more stress is a puzzling problem and there is no explicit answer for it.

Syntax, no doubt, shows once ability, command and hard work on a language. If you don't know the syntax of a language then you can't say that you know that language. The more proficient you are in knowing and writing properly the syntax of a language, the more ac- curate and efficient work you can develop. But at the same time, syntax is something that one can always look into the books or search it on the net. It is not an ability that one needs to develop; it is something that can be tamed easily by just a little hard work or a little smart work while searching.

Logic on the other hand forms the core of programming. Every programming tool, whether it is flow chart, or algorithm, or anything else, primarily focuses on forming a sound and clear logic. Logic is not something that can be gained by directionless hard work, though persistent practice with correct analysis every time of your ability and approach to develop logic may make you better. Logic is something that can't be learned, it is a gradual process of developing an approach and then implementing it effectively via a programming lan- guage.

So on which aspect one most focus on? There isn't an explicit answer to it, as both parts are necessary for programming. But, syntax as it just forms the body could be learned anytime, anywhere. So beginners must focus on developing sound logics, as once you are able to develop, then you will be able to pick any language that will facilitate your logic and provide the easiest and most efficient path to implement it. Once you master the ability to develop logic, then learning syntax is just a formality, that can be done easily, and the developed logic can be implemented in any language.❖

DID YOU KNOW
1. On average you can dream anywhere from one or two hours every night.
2. Honey is the only natural food which never goes off.
3. Names of all continents both start and end with the same letter.
4. The Mona Lisa doesn't have eyebrows.
5. An ostrich's eye is bigger than it's brain.
6. Lemons contain more sugar than strawberries.
7. A lobsters blood is colorless but when exposed to oxygen it turns blue.
8. "Dreamt" is the only word that ends in mt.
9. Spiders are arachnids and not insects.
10. The very first food eaten by a U.S astronaut in outer space was applesauce.
11. August has the highest percentage of births.
12. 11% of people are left handed.
13. Donald Duck comics were banned from Finland because he doesn't wear pants!

GEEKS CORNER

What you cannot afford to miss at a B-school
Ankita Srivastava

B-school is not about books! There is no knowledge in those models/concepts/jargon that a roadside grocer, with most likely zero business education, might not (in essence) be aware of. Be it about understanding consumers to sell your products or addressing bottlenecks to create a more efficient supply chain- ultimately, it all boils down to common sense and experience. Still, we pay lacs in fees to earn a stint at B-school and if it turns out correct, we churn out to be better business managers than the roadside grocer we talked about.

How does that happen?
2 underlines needed here- first, *better* business manager; second, and more important, *if it turns out correct*.
Better?
By *better*, I do not imply MBA-degree-holder. At the most fundamental level, it is the ability to understand business holistically, foresee problems and address them logically through a structured thought process despite having no experience with it before. Our claim of being *better* stands tested at the structure of our thought process, ability to think multi dimensionally and solve problems that we may not have confronted before. That is where we stand apart from the grocer.

If it turns out correct
My greater focus in this article is on this second underline. The learning one undergoes in a B-school is directly a function of the means, and the ends just materialize. Learning does not happen with cramming a set of concepts and reproducing them on paper, and neither does it end with ranks or medals. It is the culture of the B-school that you experience and move on to a stage of sounder business understanding and enhanced learning. The topmost B-schools in the country possess and take pride in a culture of their own, and there is a culture that every B-school must breed, in order to allow its participants to benefit from it

and *develop* rather than get trained in pedantic concepts.
And who builds the culture?
The participants, of course! There is little where the administration can contribute. The culture evolves from what/who/where/how the participants engage in/with. 4 things at B-school which I think no participant should miss on because not only are they fun but also the greatest contributors to learning and something you look back to as shaping stones in your life-

1. Peer discussions
The greatest wealth of knowledge you amass comes from interactions with your peers and luckily, that is what you spend most of your time doing. It's effortless, it's engaging and it's fun. Conversations that draw points and counterpoints help you gather data, build a perspective and develop an opinion. More so, the process enables you to handle discussions and make yourself heard. Be it academic concepts or general affairs, peer discussions enrich your knowledge base and develop perspectives in ways no lecture or book can.

2. Competitions
An extremely active domain these days. Corporates nowadays are throwing out business problems as challenges to B-school participants and hunt for answers in presented solutions. What the participant earns

is exposure to real life business problem, which no case in books or even any other form of simulation can deliver. While responding to the competition challenge, we learn to look holistically at the business-breaking silos of marketing, operations, finance or human resources. The concepts that were delivered in lectures (and seemed nothing more than words) suddenly turn to life and aid you in structuring your solutions. Even more, you learn to present your thoughts in presentations and learn the craft of designing them. At the end of some really rigorous effort, you cannot but realize that you inched closer to a more structured thought process directed towards decision making- which eventually is what management is about. Winning some position in such competitions, of course, earns you another reward (mostly) of a PPI/PPO. Nothing to lose here, only to gain!

3. Networking
Any amount of emphasis on networking is just not enough. Campus placements are one-off events. Your steps in career ahead are mostly a function of the network you build and the reach you create.

Not the books, not the lecture notes helped me so much as these did. As all B-school pass-outs would agree, these are the things we look back to and reap dividends from for our lives ahead!❖

Ankita Srivastava (2006IPG) is working for Deutsche Bank, Mumbai. She was titled as Ms. Aurora '09 at IIITM. more, a Gold medalist for scholastic performance at IIM, Indore (2013)

SOME USEFUL APPS:

1. **Settle Up (Android Apps on Google Play)**
Ever been to a trip and found it mind numbingly difficult to keep track of who paid how much and for whom?
With Settle Up, you create a group at the beginning of a trip. You add all your friends (their emails get added to, if they are syced with your contacts). You record every "transaction" - amount paid, by whom and for whom (default is for all, but you can alter that).
2. **Unified Remote (Android Apps on Google Play)**
Turns your phone into a remote for your laptop. Has multiple remotes - keyboard, mouse, WMP, VLC, Slideshow etc etc.
No need to get up to rewind/pause a movie anymore.
And works like a charm.
3. **Wifi Manager(Android Apps on Google Play)**
Turns your phone into a portable wifi. Great when you do not have your data card with you.
4. **Cam Scanner(CamScanner -Phone PDF Creator)**
Scan documents from your phone itself. Comes in handy a lot of times.
Also, the scan quality is nearly as good as that from a normal scanner.
5. **Smart Compass (Android Apps on Google Play)**
The name says it all.
6. **Google Goggles (Android Apps on Google Play)**
Take a pic of anything - monuments, objects, logos, bar codes - and search for it using Google Goggles. Works like the TinEye reverse image search.
All you need to do is click. And search.
7. **Duolingo (Duolingo: Learn Languages Free)**
Substitute for your foreign language teacher.
8. **Mighty Text (SMS Text Messaging ↔PC Texting)**
Enables you to send messages between your PC and your phone. You can also send messa--ges from your PC on behalf of your mobile.

GEEKS CORNER

CampusWhizz.in
CampusWhizz

GEEKS CORNER

One fateful day a fine group of young and enthusiastic students decided to do something meaningful with their life This is how the story of "CampusWhizz: Explore The potential started. It was a hot summer day with laziness all around when suddenly "the boss" decided to share this idea was going on in his mind for quite some time with some of his friends. The group consisted of 6 newbies except for the boss (obviously) who were pretty excited with the concept of making their own name stand in this big scary world. They were all ama-teurs to this web development business but were determined to face any hurdles head on and with complete faith in each other. The group sat at the IIITM's world famous canteen and began developing strategies and methodologies to produce a brilliant venture. With initial hiccups, the work started and slowly gained momentum. The idea was to come up with a web site that prevented students to commit the mistakes that they committed and helped them get a proper guidance. Although the idea was not very new and uncommon it was the spirit and will that inspired and transpired CampusWhizz: Explore The potential.

In this article we would like to give an excerpt which will demonstrate what we have tried to achieve through our website. So here goes:

Do you know why you can't understand something? Every time you get stuck while studying, there's a reason. There have been ways discovered (stumbled on) the process to effective learning while studying. I was reading and reading about a concept but not truly understanding it at all. I sat back and wondered for a moment why this was the case. I opened a PowerPoint presentation of one of the lectures and it hit me immediately – I didn't go through and understand the mathematics behind the process!

As an engineer, you learn to find re-occurring patterns in anything you do. This led me to questioning where in the past I had learnt something well and truly understood it – a distinct pattern emerged! Every time I grasped something well, I could easily explain three key components. As you read through, see if you can successfully explain these three components to your friends (other engineering students of course, not someone else!) and you will know that you understand something well.

Let's use the Root-Mean-Square (RMS) as an example to explain how the three key components assist in your ability to understand. The RMS is commonly used in electrical and mechanical engineering when analysing signals.

So what are the three components to truly understanding an engineering problem?

1 – Know how it works conceptually

Conceptual understanding is how you would explain this to someone who missed the lecture. Can you explain the theory to this person without going into unnecessary detail? This is also a good test to help you reinforce your knowledge and understanding of something if you can explain it well to another person.

Conceptually, the RMS calculates the average magnitude of a signal, and the RMS squared calculates the mean level that produces the same power as the signal.

2 – Understand the mathematics

behind it

This is where the details matter. By understanding the mathematics behind a concept you begin to develop a keen idea of how it works and see the advantages and disadvantages. Textbooks LOVE putting about seventeen equations per page and when I used to come across these pages, I'd skip right on through! In the end, I would usually find myself having to revisit these pages and spend the time working through each equation step by step.

So, what does the mathematics of the RMS tell us?

It tells us the process to calculate the RMS – square each value of the signal, calculate the mean and take the square root. But why is it necessary to square the signal and take the square root? This relates to find the mean value of a signal

In signal analysis, you will commonly encounter signals that have been measured which oscillate about a mean value. While technically true, it does not provide any thing useful to us. The RMS will tell you the average magnitude of the signal – by squaring all the

3 – Recognise the practical applications

Understanding how something works conceptually is great, but can you implement and apply it practically to solve a problem? Do you know where it can be applied? By knowing how to implement something, you are making it practical. The point of engineering is to make something of relevance that can improve society. By knowing where to implement the technique, you can avoid looking foolish.

The RMS can be implemented to analyse various signals, from electrical signals to mechanical vibrations.

Summing up

When I look back at the theories I understood during my school life, it all came down to these three things. If I understood the concept, the mathematics and know where it was applied in real life then I could really grasp the concept.

These three simple components that will ensure you truly understand any subject or content. It will take you time to truly understand something (and that's the whole point!), but now you have a strategy to implement and make it easier! If you get stuck with your understanding, go back and see if you can explain these three components to one of your fellow students

So this is one of the few examples of how we tried to use our experience to build a website that was not only useful to the students in helping them with their careers but guided them on how they should approach the most basic hurdles of life.

Hope you liked it!

For more info you can visit www.campuswhizz.in ❖

<u>Top 5 companies that young people wish to work for</u>

1. GOOGLE

Google is headquartered at 1600 Amphitheatre Parkway, Mountain View, California. It employs 24,400 people worldwide and brought in $29.32 billion in revenue in 2010.

2. APPLE

With headquarters in Cupertino, California Apple employs 49,400 people. Last year the company saw $76.28 billion in revenue.

3. FACEBOOK

With its headquarters at Menlo Park, California, U.S., Facebook is the recent buzz in the employment sector that allures the young professionals in the employment sector. But given its high technological advancements, the company holds a really tough recruitment process. Its full time employees now number 3,200.

4. AMAZON

Amazon.com, Inc. is based in Seattle, Washington. With a revenue of $34.20 billion in 2010, it has 33,700 employees.

5. MICROSOFT

Microsoft's corporate offices are at One Microsoft Way Redmond, Washington. It has 88,719 employees worldwide and annual revenue of $66.69 billion.

For more info visit http://www.campuswhizz.in/cwzz

GEEKS CORNER

Glimpse of the Dream
Working at Google as a Software Engineer might actually be a dream of 'Googol'.

Vishwa Prakash Gayasen

19 Aug, 2013:
One fine day, I received an e-mail from Google stating that there might be an opportunity for me to work at Google Headquarters (Mountain View) and asking if I am interested for the job or not. The obvious reply to the mail was "I will be more than glad". After a brief telephonic discussion, the HR briefed me about the recruitment process. There were going to be 1 or 2 phone screen rounds. This meant they wanted to check whether I actually deserved to appear in one of the Google job interviews.

The HR finalized 23rd as the date for the phone screening round.
The much deserved sequence of preparation, anticipation, excitement as well as nervousness began. I had 5 days to prepare for the phone screen. They gave me a set of topics to prepare for. They were common interview topics such as algorithms, data structures, operating systems etc. A point I would like to stress is that more than factual knowledge, presence of mind counts. Even if you show your innovative side while dealing with the questions you are surely moving ahead.

23 Aug, 2013:
It does not take much to pass 5 days' time, especially when you are preparing (somehow time paces faster.. :P). Interestingly, time slows half an hour before the interview and you can feel every second. My phone rang right on time . The interviewer went straight to the questions without much pre-interview talks. The interviewer also gave me a link to Google docs page which was supposed to act like a common coding window for the both of us. He gave me two questions both were simple implementation, coding questions. They required simple manipulation of loops and if's and else's. My suggestion would be to have a basic grasp on any of the coding languages (either C/C++, or Java). Programming language is never a barrier during an

interview; you can code your solution in any of the languages. The interview went pretty fluently with me coding solutions to both the problems.
Recruitment process of Google is very straight forward. It might take time but at each step you will know when you will know the result of the previous round. Within next 2 days I received a mail that I have to reach Google, Hyderabad Office, for further rounds.

1 Sept, 2013:
On-site rounds of interview were scheduled on 2nd September. I reached Hyderabad on 1st August. Believe me when I say Google does not lack an inch in hospitality. Top grade accommodation and transport services. But I was not there to enjoy the luxuries, had other plans instead. After ample amount of sleep, the day of the interview began. Seeing the Google office leaves you speechless for a few moments but again I was not there for sight-seeing. The coordinating HR briefed me about the interview scenario. There're going to be a maximum of three interviews and a lunch with one of the Software Engineers. Each of the rounds was an elimination round so the candidate does not have much room to mess up. Each of the interviews was to last approximately from 45 min to 1 hour. First interview began with one of the experienced Engineers. . He planned 1 question and anticipated that if I was fast enough on the

Few Books to add to your almirah.

#Test your C skill-Yashavant Kanetkar.

#Quantitative Aptitude -R.S. Aggarwal

#Coding Interview Questions -Narasimha Karumanchi

#Operating Systems Concepts- Peter Baer Galvin

question he would ask me one more which is what happened. Both of the questions were both algorithmic as well as open ended. There was no fixed answer and interviewer was open to discuss my approach and agree onto it. Again my point of stress would be to think openly rather than relying on factual knowledge and fixed algorithms. The question is easily twisted with a simple phrase "what would happen if", and the follow up part is something which you would have never heard before. **So be prepared to think on your feet.**

Second interview was also similar. The interviewer came up with a question which involved some concepts from computer networks and it was a simple question on strings. If you do get stuck somewhere in between the interviewer is always prepared with a hint. Take it happily, as these hints are for your help only. If you hesitate in taking the help offered, you might run into a dead end. Second interview had one more basic question on geometry, taking simple point distance concepts from 10th grade.

The Final interview, as expected was a bit difficult. The Interviewer came prepared with a good question on recursion. My reply was quite instant and the question was cleared very quickly. The interviewer simply moved on to the next question. My suggestion would be to take time with each question. Not to be confused with wasting the interviewer's time but to take the question and explain every aspect of it. You can tell all the approaches you can think of and finally settle with the best approach.

Remember they are there to check your thinking capability, so make sure to show how you came up with the best solution. The final question was not algorithmic but a simple tricky question which got me in the end of entire interview process.

Though I didn't get through, I did learn that all you need to do is prepare simple stuff and be thorough with it. The preparation process requires you to KNOW WHAT YOU KNOW. Practice simple questions to test your thinking ability and thinking speed. ❖

Some Smart phone apps you must have!

1.Google Sky Map
A stunning app that uses your phone's orientation tools to give you an accurate representation of the stars and planets on your screen. Point your phone at the sky, then learn what constellations are visible and if that's a UFO or just Venus. Google Sky Map even works indoors, if you're not keen on getting cold.

2. Winamp
Yes, the same Winamp from a decade ago. It's had an Android app for some time, with recent updates adding support for iTunes, Mac syncing, plenty of music streaming options, new release lists and Shoutcast integration for radio support. It's a fine, free media player.

3. Skyfire 3.0
The USP of the Skyfire browser is that it supports Flash content, popping up a little window when it detects an embedded YouTube video or something similar. The actual Flash business is handled by Skyfire's server, which does all the computery stuff, then sends the file to your handset. A bit clunky on slower Android phones, but it works like a dream on models with faster processors.Despite the arrival of Flash with Android 2.2, this is still relevant for those on phones and Android versions not able to support Adobe's Flash Player.

Contd..

The "Unsafe" India
Pankaj Gupta

This article is not related to any technical or managerial aspects but this is about very much serious issue and the "Unsafe" country "India" we are living in, where political issues, scams, rapes, corruption are the clothes which people use to wear.

Our country has two faces one is about the people and soldiers who fight for the safety of our country; who sacrifice their lives to protect our houses. And another face is of these narrow minded people or corrupted ministers etc who are the "Black Holes" of the country who

involved in all the scams, corruption, rapes etc.

If we pick an issue of "Girls rights and safety" in the society, we have a long list of incidents to discuss. One side our society is trying to bring girls to the level where they can stand alongside of boys, on the other hands the number of shameful incidents is increasing exponentially which includes social and mental harassments and torture, Rapes, girls get married under age, baby girl get killed after birth etc. In the past girls were not allowed to move out of their houses but today girls are afraid to go out after evening because of these incidents. People have to change their internal feelings and thinking instead of just showing off respect and making meaningless rules. For this reason a journalist and feminist "Gloria Steinem" from America said:

"We've begun to raise daughters more like sons... but few have the courage to raise our sons more like our daughters."

The most recent case of rape from Delhi (CAPITAL OF INDIA) in December 2012, where a girl got raped by 6 people(which includes a boy who is under 18years) who were drunk and travelling in a private bus, abashed each and every person of the country. The girl was with her friend waiting for conveyance at the bus stand. And unfortunately they boarded the bus in which those 6 people were travel

ing. Those people started commenting on them and the bus was also diverted from the route. The Boy (friend of victim girl) tried to resist but he got unconscious by the brutal attacks of those 6, and then the most abominable incident took place; they raped the girl very cruelly and then threw them on the road and ran away with the bus. That bus was moving in an active area of Delhi although no police officers were present at the check post, traffic signals etc.

In the place like Delhi the level of ignorance is so much high that even at the active time no police officers were present on their duties then what can we expect in the rest places of India.Although a person, carpenter by profession also boarded the same bus before the girl and boy and get looted, he even complained the police officers crossing that area but they just ignored that person and moved away. They could have easily arrested those 6 people and the sinful act could have been avoided but due to ignorance that innocent girl lost her life in a very harsh manner. Due of this that girl get injured externally as well as internally due to penetration of iron rod and died after some days. A place like Delhi has really become an unsafe part of India for women.

Another most recent case is of Asaram Bapu, a 75 year old guru, controversial Hindu preacher. He is in jail due to case of sexual assault of 16 years old school girl in his

ashram in Madhya Pradesh. He was treated as god, people use to worship him and at this period of life he made such a shameful act which was never expected by his million numbers of followers.

Other major cases are "child marriage", "killing a girl child" and many more. People of small communities use to think that a girl cannot compete as much boys and hence girls are not valued as much as boys. They are seen as burden on parents. That is the major reason of child marriage. Many girl children are killed at the birth only due to the conservative thinking of people that a girl cannot make their parents proud as boys. They become so much selfish and egoistic that they can't even think that without a woman a boy can never come on to the earth. Killing a girl child at the time of birth is a murder; government should take strict decision against these people because they do not have the rights to live.

Count of sexual harassment or rapes of foreigner tourist is also increasing day by day not even linearly but exponentially. India lies among the Top 10 countries in the world with high incidence of rapes; this is the most shameful award a country can achieve.

Whatever will be the age or cast of a person if he cannot respect a women then he is blemish on humanity. But here in India Criminals are treated as "Son in Law" of government. These people do not have rights to live; also they must be punished so badly that another person has to think hundred times before doing such things. These incidents are the reasons why do women feel so much unsafe in stepping out from their houses in India. Rules and regulations should be strict, women safety should be guaranteed in every part of India. People should change their thinking about women, they should respect them, then only India can become a Safe country and hence a developed country to live freely

Women also have feelings, no-one have rights to disrespect them and hurt their feelings, because she is the one who brought you into this world, respect her, as she deserve it. *"Beauty provokes harassment, the law says, but it looks through men's eyes when deciding what provokes it."*-by Naomi Wolf. ❖

IMPORTANT WEBSITES YOU MUST VISIT: (Part 2)

• Reedit- Reddit stylized as reddit, is a social news and entertainment website where registered users submit content in the form of either a link or a text ("self") post. Other users then vote the submission "up" or "down", which is used to rank the post and determine its position on the site'-s pages and front page

• Digg- Digg is a news aggregator with an editorially driven front page, aiming to select stories specifically for the Internet audience such as science, trending political issues, and viral Internet issues. It was launched in its current form on July 31, 2012, with support for sharing content to other social platforms such as Twitter and Facebook.

• Quora- Quora is a question-and-answer website created, edited and organized by its communi--y of users. The company was founded in June 2009, and the website was made available to the public on June 21, 2010.

• 9gag- 9GAG is an image-based social media website which is based around user-uploaded, co--mical images dubbed "Fun". The site had 2 billion monthly pageviews as of Dec 2011, accordi--ng to co-founder Ray Chan, although this statement is undocumented..

• Oatmeal.com- The Oatmeal is a comics and articles website created in 2009 by Matthew Inma--n (born c. 1985), who often goes by the nickname "the Oatmeal". The website features comics drawn by Inman, quizzes, and occasional articles.

LIFE STYLE

Placement Express

Ankita Ahuja

Placement fever.. sickens everyone sometime.. You begin your college life, tackle your way through various adjustment problems, social issues (prominent in certain lively folks out there), forum work, projects, mentors and before you know it.. knock knock.. the final year is here..

Honestly, I and I'd rather take the liberty to say that a major part of my batch wasn't at all prepared for this phase. Post our fourth year majors, when we looked at the vast stretch of approximately 2 months of vacations, they did not seem va-

-st at all. We hardly knew how the preparation had to be begun.

Nonetheless, since I went off to relax, and could not bring myself to study at home, I started coding. Not hard core coding, but simple coding questions, one or two at once whenever I had the time.

When I came back in the first week of June, I knew I had to put in lots of endeavours to get through. I and my friends, we jumbled through several presc-

-ribed books on all the core subjects and finally settled on the best and concise ones. We had to prepare for aptitude as well since almost every company does its shortlisting via an aptitude round.

For like the second time in life, I made a schedule and tried to follow it as well. We took two subjects at once along with solving aptitude questions at the dusking hours. We even took to studying in the reading room ("reading room" for heaven's sake!!) accompanied by a lot of our batch-mates who swarmed in and out at various intervals. About preparing for the aptitude; the questions asked do not demand an Einstein to solve them, just basic mathematical knowledge and comprehension ability.

What you actually need to practice is solving them quickly. Studying the core subjects was accompanied by preparing notes for them for future references. We jotted down every concept which was important and dug deeper into anything we could not comprehend. Whilst studying we focused on mainly the topics which were important from placement examination point of view. We also resorted to studying via certain web forums. "geeksforgeeks.com", for instance, proved to be a boon.

Although the requirement of knowledge about programming languages might be company- specific

yet the basic knowledge of C/C++ is considered mandatory. We refamiliarized ourselves with the conncepts of C++ and earnestly, found this brushing up extremely fruitful for there was so much about the language we didn't know

Another aspect of placement preparation like any other preparation is solving a lot of question papers. We dug into our internet sources and fished out numerous placement papers. These papers gave as an insight into what sort of questions are asked, what topics are important and which ones ain't, which company asks for what specific set of skills, etc.

A common misconception amongst us before we faced our placement exams was about coding questions. We all thought the questions for the first qualifying round were supposed to be very complicated and would demand the coding skills of a hard core coder. Instead, the coding questions of the technical round are fairly "non-complex" and require the basic knowledge of loops (if-else, while, for, etc.).

After we had studied optimally (well, atleast to our hearts' contentment), before every company's placement drive, we sat down for a thorough revision of our notes, a quick glance over the C++ language concepts ("Test your C skills" was the guru mantra!!), a little of apti-

-tude formulas and some algorithmic study and we were all set for the show to begin!!

Even with all these preparations, something which hindered my way the first time I sat for a test was my temperament before the exam. A little nervousness is always necessary, but if you let your fears grip you, there is no way you'll be able to give your best. Before you appe--ar in a test, calm yourself down, feel a little confident, believe in yourself and in your preparations and you're bound to come out with flying colours. ❖

Some Smart phone apps you must have .
(...continued)

4.Changelog Droid
Android automatically updates your apps when you are on WiFi, which is a fantastic feature, but that can often leave you confused about which updates have added which features.

Changelog Droid keeps track of the changes that get made to your installed apps with each update, so you can put your foot down if an app insists on making changes you don't approve of.

5.DashClock Widget
Every Android user we know swears by DashClock. DashClock puts your most important notifications and other information on your home or lock screen in a beautiful, clean and readable format.

It is extensible and there are a multitude of extensions for it that can tell you the weather, show you your appointments and tasks, alert you to new emails, texts and WhatsApp messages, give you shortcuts to things like turning on your phone's flashlight, and then some. DashClock is the ultimate Android widget to own

6.flashME
Most Android phones have a notification LED on the front, but that's not much help if your phone is placed upside down. flashME flashes the camera flash to alert you to incoming calls and text messages on your phone, and unlike similar apps, it has a useful setting that makes it function only when the phone is facing downwards. So you can still have your flashing alerts when you want them, without lighting up the whole theatre the next time you go to the movies.

7.Nights Keeper
Wouldn't it be nice to have a snooty butler who prevents callers from disturbing you after you've gone to bed at night? This app will do that for you, minus the British accent.

If someone calls you after you're tucked in, Nights Keeper will act as a gatekeeper and won't allow them through, replying to the caller with a pre-programmed text message instead. If you set it up that way, it will allow persistent callers to get through and even allow certain special people to get to you on the first try.

CAREER MANTRA

coding platforms...

Codeforces is a Russian website dedicated to competitive programming. Codeforces provides to all users following main services:
- participation in the short (2-hours) contests, so-called "Codeforces Rounds", held about once a week;
- ability to solve problems from previous contests for training purposes;
- "polygon" for creating and testing problems;
- kind of social-networking by using of internal public blogs.

Contestants are rated by system similar to ELO. There are usually no prizes for winners, though 100 winners of 100-th Codeforces Round received a T-Shirt. Some bigger contests (mostly country internal) are hosted on Codeforces base, among them "Yandex Algorithm 2011", provided by Yandex - one of biggest Russian IT-companies

CodeChef is a noncommercial Educational Initiative from Directi, an internet products company based in Mumbai, India. With CodeChef, we aim to create a global community that fosters learning and friendly competition. As we are based in India, we take extra steps to encourage the programming community here. We partner with colleges and groups to create local CodeChef chapters and meetups. In addition, we sponsor coding contests and teams of Indian programmers as part of the Go for Gold Initiative. For more info about Directi, visit our Directi website.It host contests, trainings and events for programmers around the world.

Google Code Jam is an international programming competition hosted and administered by Google. The competition began in 2003 as a means to identify top engineering talent for potential employment at Google.The competition consists of a set of algorithmic problems which must be solved in a fixed amount of time. Competitors may use any programming language and development environment to obtain their solutions.

Now eleven years strong, the infamous Google Code Jam returns to throw intense algorithmic puzzles at programmers from around the world. Of the 45,000+ coders who registered to compete last year, it was Ivan Miatselski (mystic) of Belarus who, at the end of it all, stood alone as the Code Jam Champion. to defend his title from you in the 2014 Finals!

ACM ACM International Collegiate Programming Contest (abbreviated as ACM-ICPC or just ICPC) is an annual multi-tiered competitive programming competition among the universities of the world. The contest is sponsored by IBM. Headquartered at Baylor University, with autonomous regions on six continents, the ICPC is directed by Baylor Professor William B. Poucher, Executive Director, and operates under the auspices of the Association for Computing Machinery (ACM).

The contest involves a global network of universities hosting regional competitions that advance teams to the ACM-ICPC World Finals. Participation has grown to several tens of thousands of the finest students and faculty in computing disciplines at almost 2,330 universities from over 91 countries on six continents.

WEBSITE LINKS-

www.hackerrank.com
www.spoj.com
www.topcoder.com

www.codingbat.com
www.pythonchallenge.com
www.onlinejudge.org

AASF (FORMERLY ISF)
EXECUTIVE MEMBERS

EXECUTIVE MEMBERS	FACULTY/STUDENTS	PART OF AASF SINCE
Prof. Y M Gupta	Faculty Advisor	2003
Ashish Jha	IPG-2001	2003
Saurabh Sharma	IPG-2001	2003
S. Ajay Kumar	IPG-2002	2003
Dhruv Joshi	IPG-2003	2004
N. Raghavan	IPG-2003	2004
Shishir Chandrol	IPG-2003	2004
Dr. A. K. Saxena	Faculty Advisor	2005
Amit Gupta	IPG-2004	2005
Kunal Kapoor	IPG-2004	2005
Mayur Gupta	IPG-2004	2005
Prof. Om Vikas	Faculty Advisor	2006
Aditya Arora	IPG-2005	2006
Manyata Goyal	IPG-2005	2006
Rahul Kala	IPG-2005	2006
Dr. Joydip Dhar	Faculty Advisor	2007
Dr. P. K. Das	Faculty Advisor	2007
Dr. Anupam Shukla	Faculty Advisor	2007
Aniruddh Srivastava	IPG-2006	2007
Bipul Pandey	IPG-2006	2007
Late Gunjan Nishant	IPG-2006	2007
Prachi Jain	IPG-2006	2007
Anurag Upadhyay	IPG-2007	2008
B. Sushmitha	IPG-2007	2008
Ronak Dhoot	IPG-2007	2008
Dr. K K Pattanaik	Faculty Advisor	2009
Ark Mishra	IPG-2008	2009
Kamya Jaiswal	IPG-2008	2009
Late Tushar Sharma	IPG-2008	2009
Ankita Ahuja	IPG-2009	2010
Ankit Katiyar	MTECH(IS)-2009	2010
Ketn Jain	MBA-2009	2010
Nitish Bhardwaj	IPG-2009	2010
Payal Anand	IPG-2009	2010
Renu Verma	MTECH(VLSI)-2009	2010
Siddharth Dharmadhikari	MBA-2009	2010
Vishwa Prakash Gayasen	IPG-2009	2010
Late Abhinav Saxena	IPG-2010	2011
Rajesh Kumar	IPG-2010	2011
Surbhi Arora	IPG-2010	2011
Swati Sinha	IPG-2010	2011
Aditya Verma	IPG-2011	2012
Chitranjali Banjare	IPG-2011	2012
Rajkumar Verma	IPG-2011	2012
Riya Naval	IPG-2011	2012
Annu Sachan	IPG-2012	2013
Kushagra Varshney	IPG-2012	2013
Rohit Ratnakaran	IPG-2012	2013
Shreya Lohani	IPG-2012	2013

Coalescence of Knowledge & Skills

Abhigyan Abhikaushalam Students' Forum
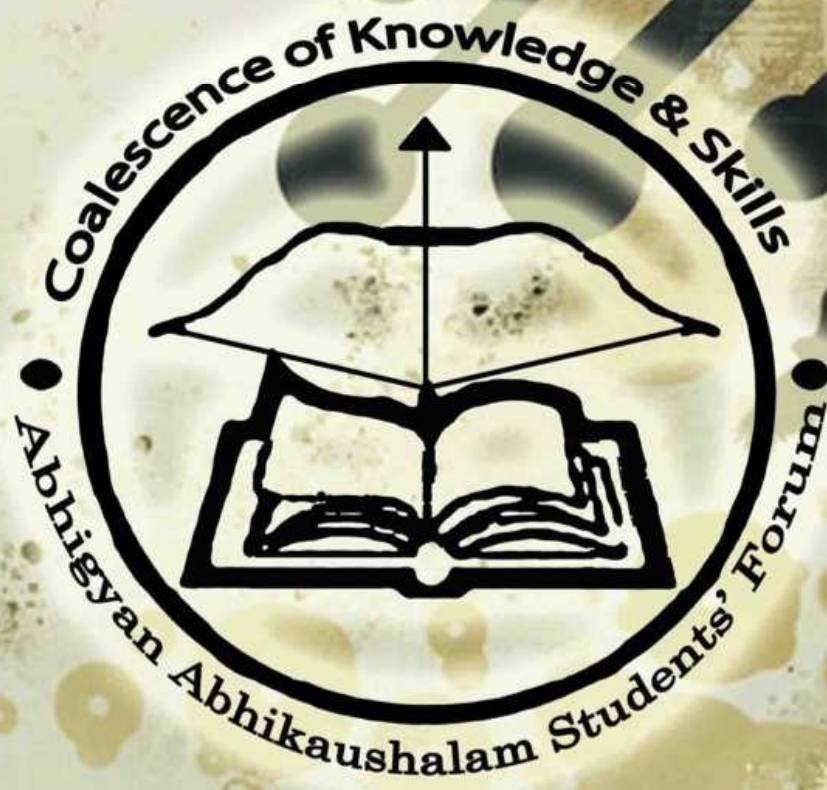
Abhigyan Abhikaushalam Students' Forum
(ABHISHAR, A-216, ABV-IIITM, GWALIOR-474010)
www.aasfiiitm.com