

I am another You

*We should have worked hard enough in order to
be lucky – Vishwanathan Anand*

by

Manas Thakur



January 29th, 2018

Who am I?

- B.E. Computer Technology (2009 - 2013)

- Placed in Persistent Systems Ltd.

- Didn't join!

A friend, fellow student

- Cracked GATE-2013

- AIR: 780

- Percentile: 99.65

- Research scholar at IIT Madras (2013 - present)

- Dual-degree (M.S + Ph.D)

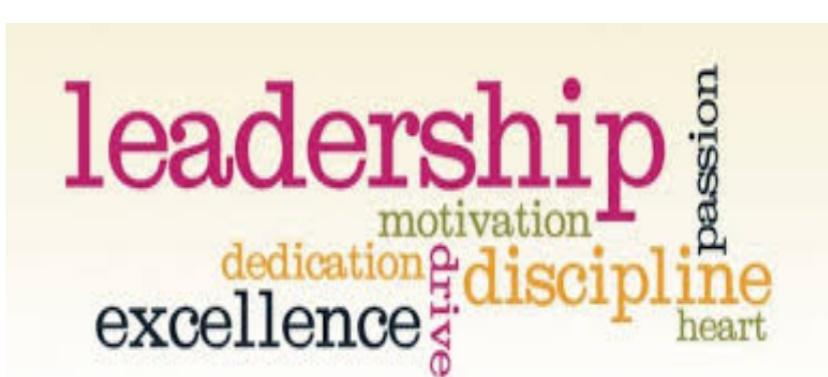
- Associated with: PACE Lab, Department of CSE

- Area: Program Analysis



What does a BTech give you?

- Excellent command at fundamentals
 - Think beyond university exams
 - Very helpful for GATE preparation
- All-round growth opportunities
 - Leadership and organization skills
- Ample time
 - Most of us actually read only during exams





Check Your Eyesight

Know what you want to **be** after BE

Vision

(vīzh'ən) *n.*

1. An imagined idea or a goal toward which one aspires.

Figure out the path(s)

Stick to **Ethics**: ends don't justify the means



Move ahead

Avoid distractions but be **aware**

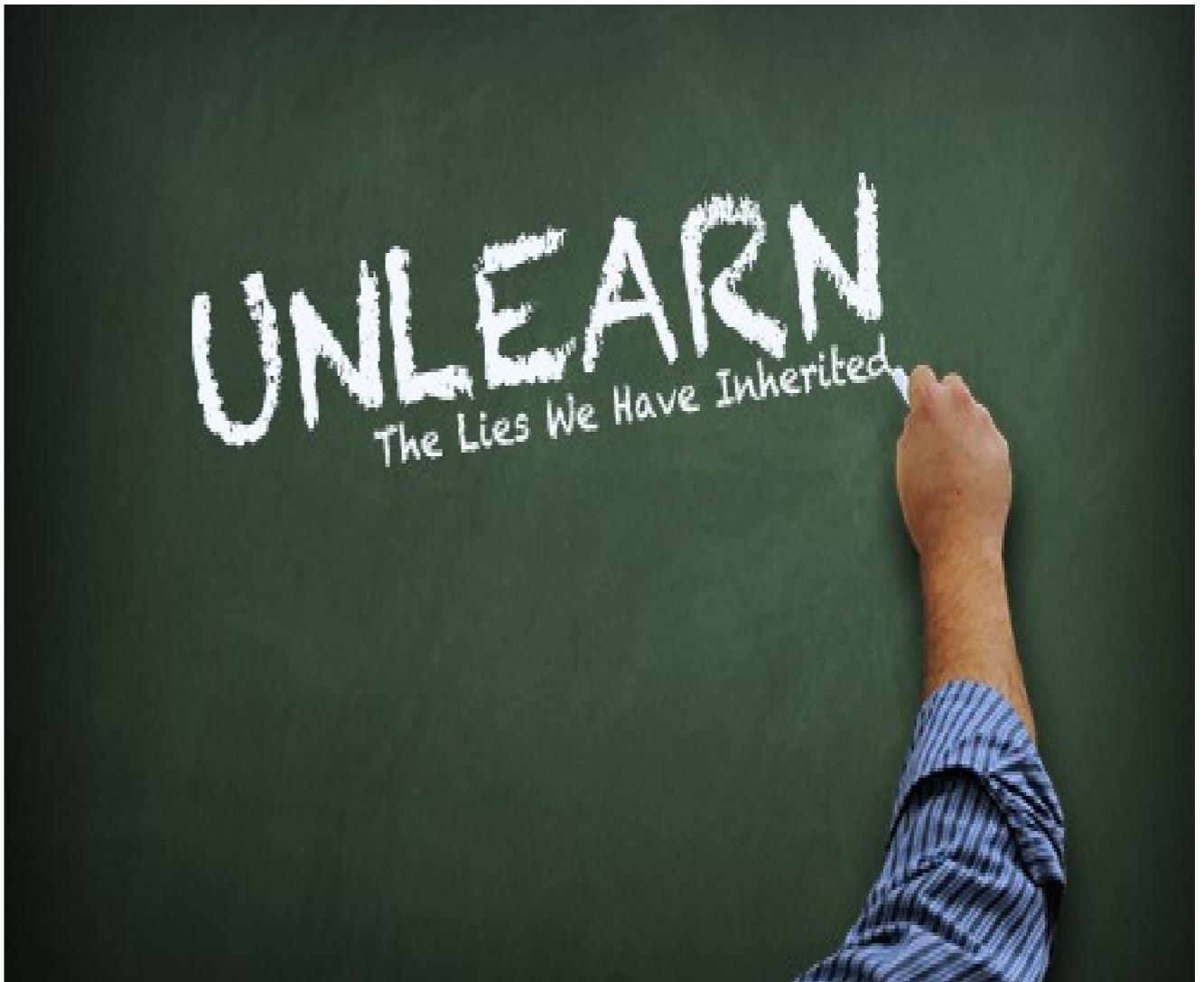


Survival of the Harmonious



Things to “Unlearn”

- Memorizing things
- Non-standard books
- Preparing for exams
- The “Blame Game”
- Failure is bad

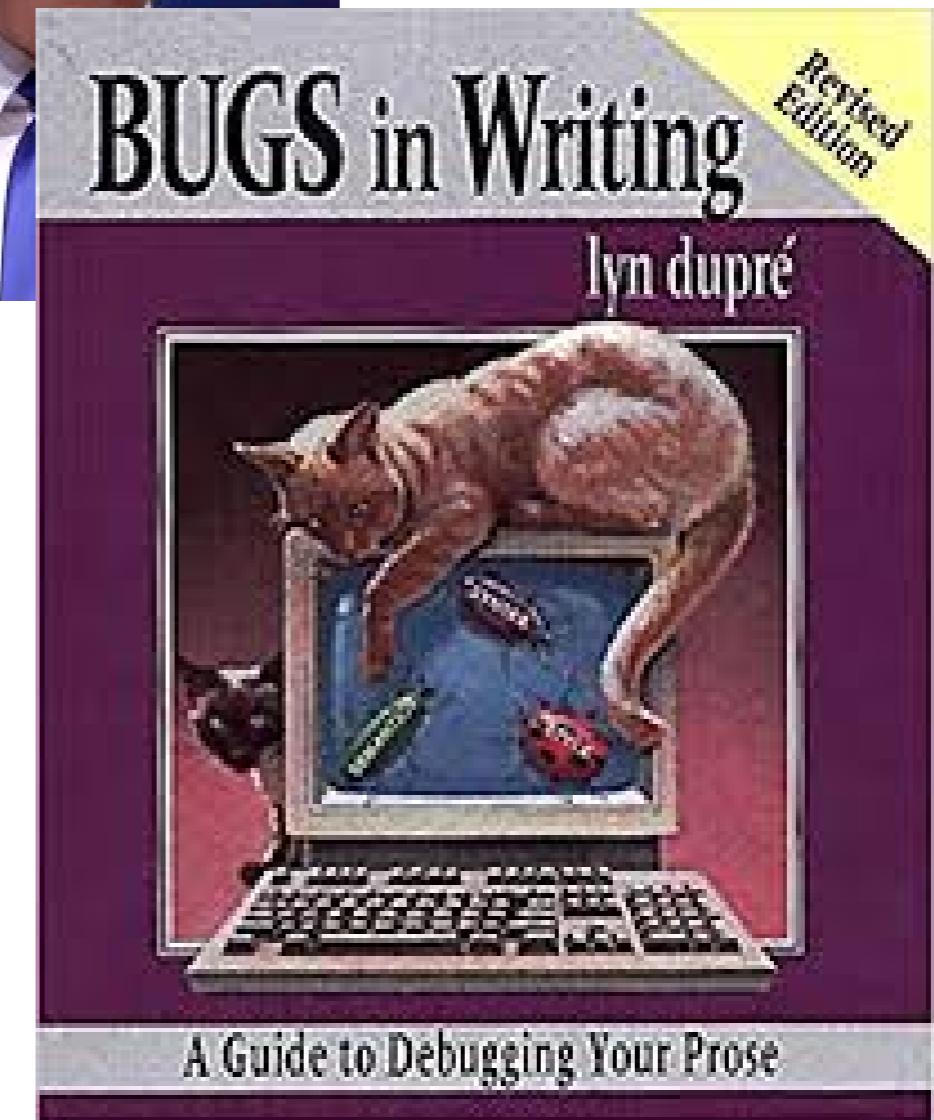


Things to Learn

- Being active
- Taking responsibility
- Managing time
- Communicating effectively
 - Reading, Writing
 - Speaking, Listening
- Using Internet



BUGS in Writing



Donald Knuth

Using Internet

- Think beyond Facebook
- Technical help: StackExchange/StackOverflow
- MOOCs: NPTEL/MIT-OCW/Udacity/edX/Coursera
- One site to rule them all: Youtube
- Take certified courses from IITs/IISc



CS-Specific



The UNIX Philosophy

- Use a Linux distro for development
- Experience the power of Terminal
- Learn an editor properly
- Prepare documents using LaTeX
- Write shell scripts
- **Takeaway: Go use command line**

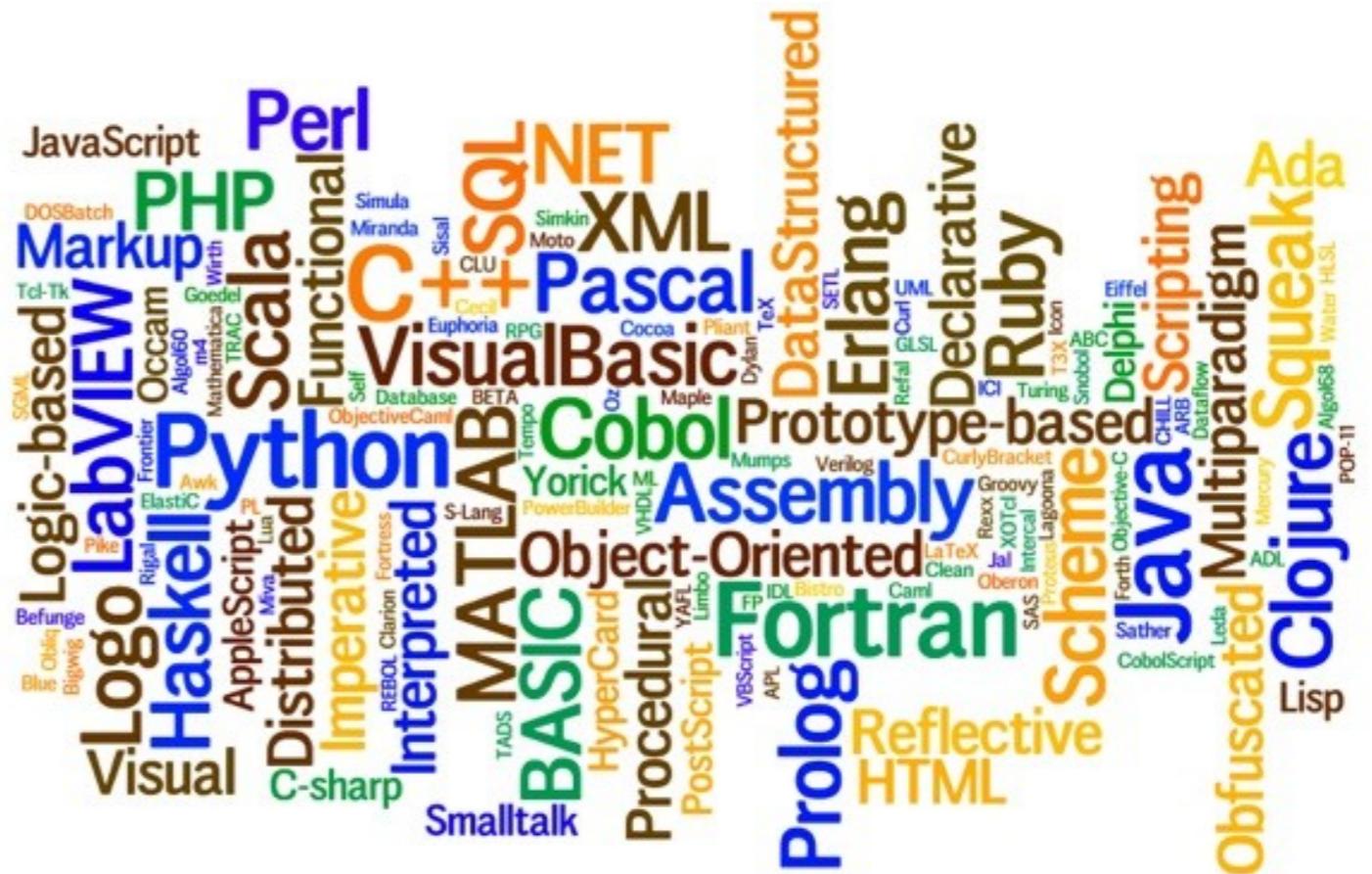


LA_TE_X



Efficient Programming

- Algorithm design & analysis
 - Computer architecture
 - Systems programming
 - Compilers
 - Parallel computing
 - OS fundamentals
 - Scalability (Big data)



Improving Online Presence



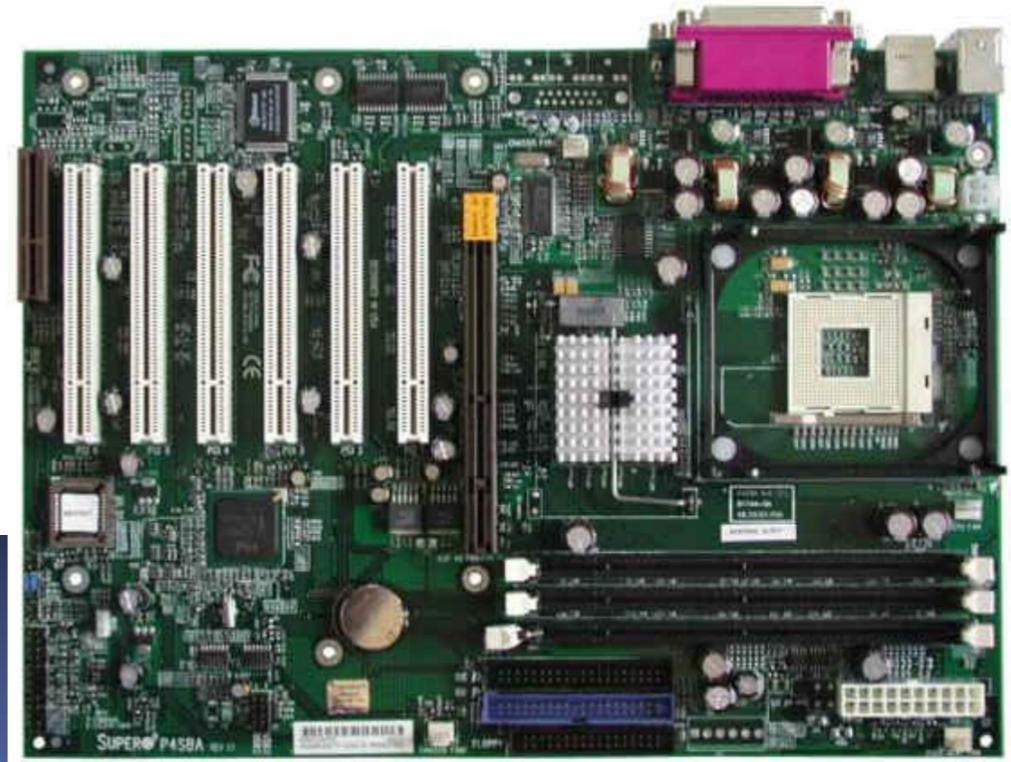
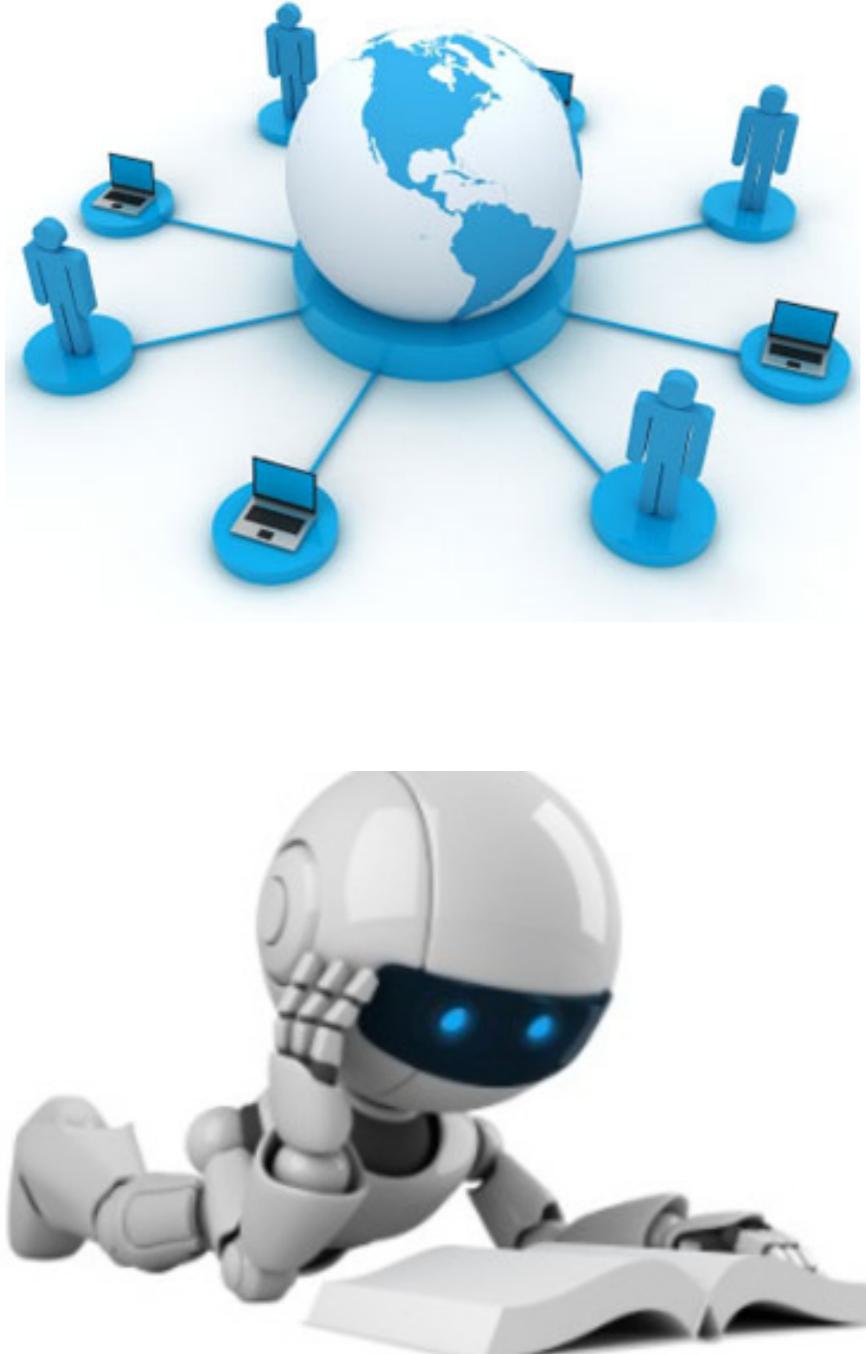
github
SOCIAL CODING

WORDPRESS

Cracking the GATEs of IITs/IISc

1. Choose your favorite GATE subjects
2. Read and understand all text books
3. Start preparing before 7th sem
4. Stay away from All-in-One guides
5. Join a good test series
6. Practice previous-year papers
7. Join “Gate Guidance” group at Facebook
8. Apply wisely at various institutes
9. Check places with double/triple filtration
10. Low score: Look out for winter admissions
11. Know the difference between industry and research careers

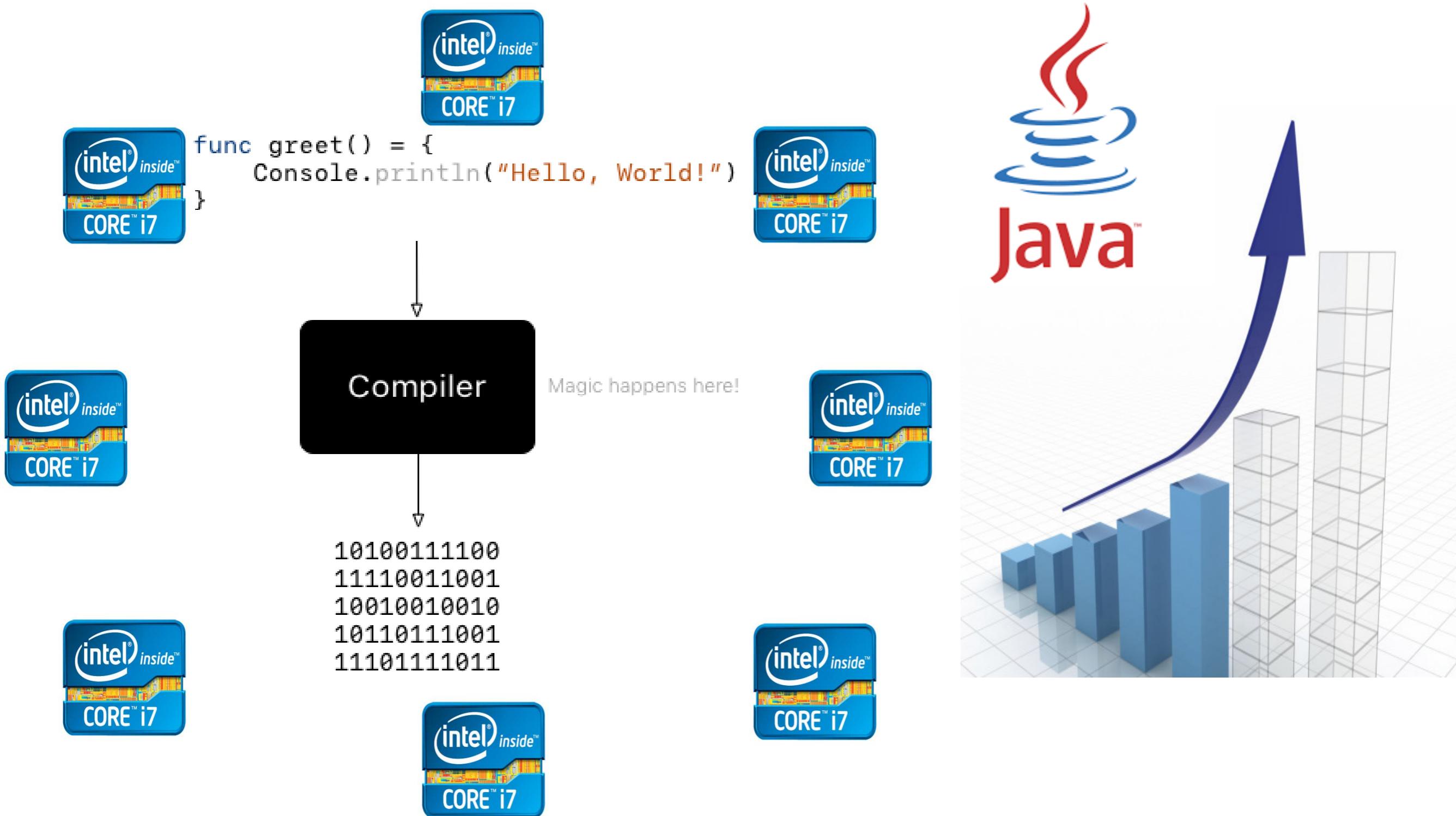
Research in Computer Science



```
void bubbleSort(int ar[])
{
    for (int i = (ar.length - 1); i >= 0; i--)
    {
        for (int j = 1; j <= i; j++)
        {
            if (ar[j-1] > ar[j])
            {
                int temp = ar[j-1]; O(1) O(i)
                ar[j-1] = ar[j];
                ar[j] = temp;
            }
        }
    }
}
```

$\sum O(i) = 1 + 2 + 3 + \dots + (n-1) = O(n^2)$

My Work



My Work

The screenshot shows a Mozilla Firefox window with three tabs open:

- GitHub Tab:** manasthakur (Manas Thakur) · GitHub - Mozilla Firefox. This tab displays the GitHub profile of the user, featuring a photo, repository statistics (15 repositories, 40 stars, 13 followers, 4 following), and links to popular repositories like `learn-vim`, `vim-commentor`, `jdk-tips`, and `vim-session`.
- WordPress Tab:** Poems | Manas Thakur - Mozilla Firefox. This tab shows a blog post titled "Let not the value of the word decrease." It includes the post content, recent posts (Who was Nehru?, Let not the value of the word decrease., The Phoenix, My experience with GATE-2013), categories (GATE, Poems, Uncategorized), and quotations.
- Personal Website Tab:** Manas Thakur - Mozilla Firefox. This tab displays the homepage of the user's personal website, which includes sections for About, Research, Talks, Courses, Experience, and Contact. The "Talks" section is currently active, listing several talks with details and links to PDFs.

Manas Thakur

I am another You

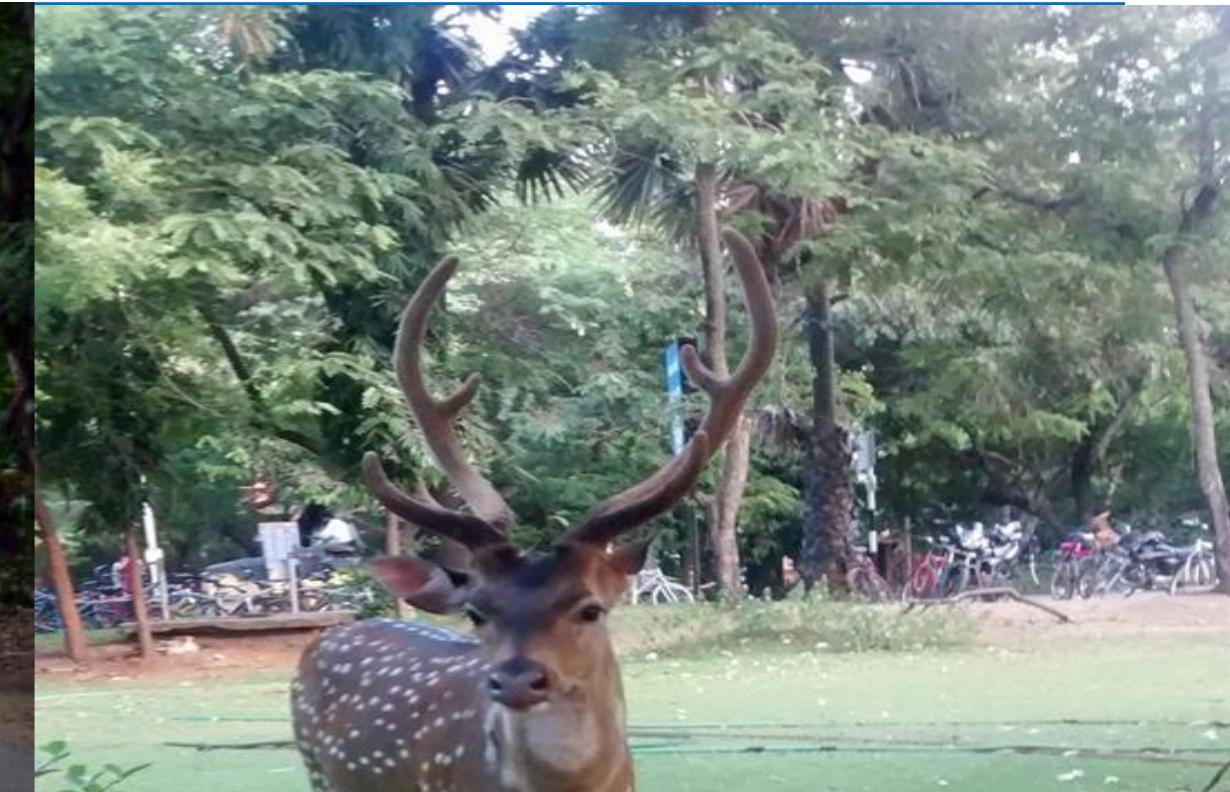
20



Welcome to Chennai



Welcome to IIT Madras



Stay Hungry, Stay Foolish, Stay Connected

Email: manasthakur17@gmail.com

Website: www.cse.iitm.ac.in/~manas

Facebook: www.facebook.com/manasthakur17

LinkedIn: www.linkedin.com/in/manasthakur

GitHub: www.github.com/manasthakur

WordPress: manasthakur.wordpress.com

Slides: www.cse.iitm.ac.in/~manas/docs/svcet-manas.pdf

