

# I am another You

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

by

**Manas Thakur**



August 24<sup>th</sup>, 2015

# Who am I?

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- A KITSian
  - B.E. Computer Technology (2009 - 2013)
  - UT, UR, CR
- Placed in Persistent Systems Ltd.
  - Didn't join!
- 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



# Who am I?

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A friend, alumnus, student

**I am another You**



# What does a B.E.@KITS 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



IT'S ABOUT  
**TIME**



# Check Your Eyesight

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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)

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



# Move ahead

Avoid distractions but be **aware**



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# Survival of the Harmonious



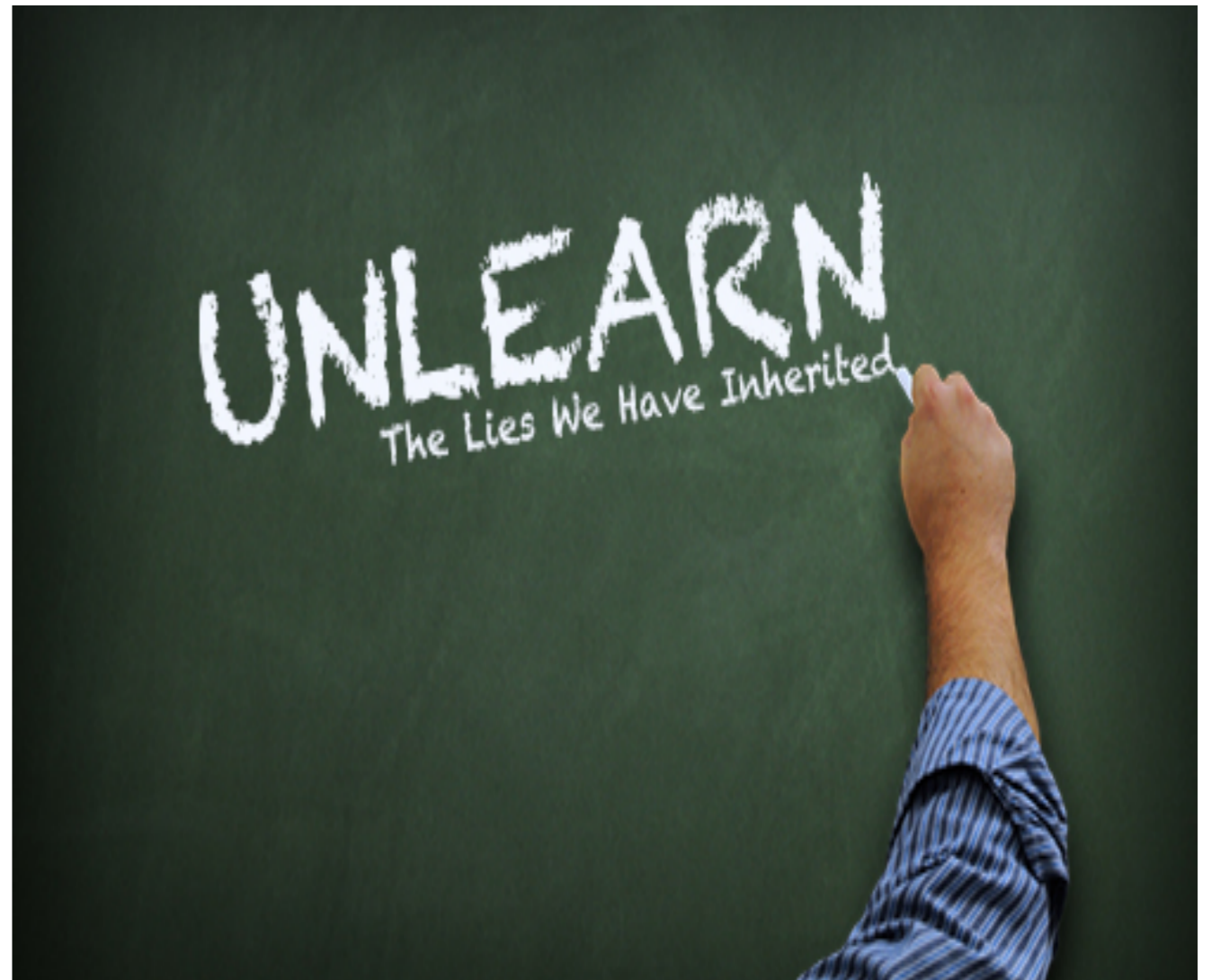
I am another You



# Things to “Unlearn”

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- Memorizing things
- Non-standard books
- Preparing for exams
- The “Blame Game”
- The Sir-Mam culture



# Things to Learn

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- Being active
- Taking responsibility
- Managing time
- Communicating effectively
- Using Internet



# Communicating effectively

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- **Read**
  - Books
  - Novels
  - Magazines
- **Write**
  - BUGS in Writing
  - The Elements of Style
- **Speak**
  - Get involved: debates, discussions
  - Word Power Made Easy



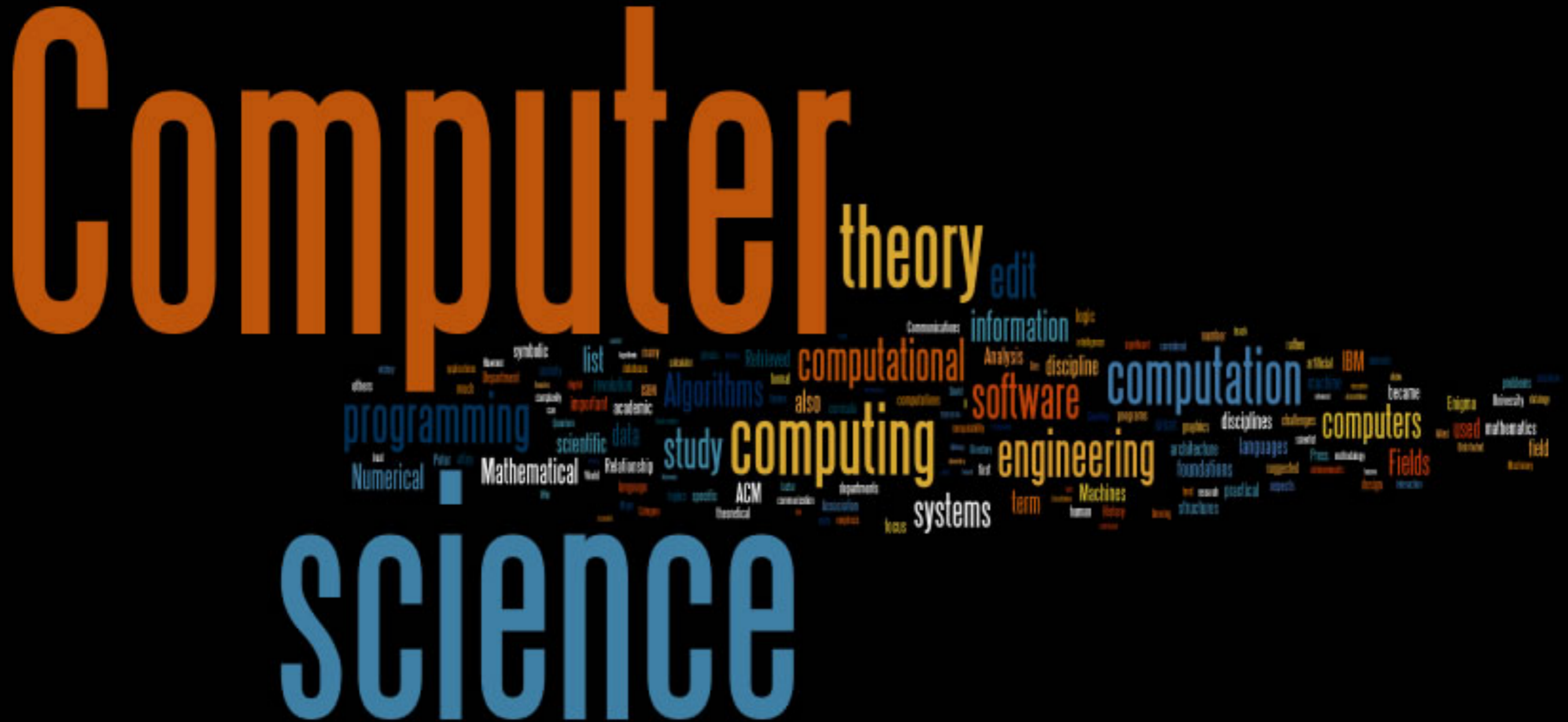
# Using Internet

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- 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

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



L<sup>A</sup>T<sub>E</sub>X



# Efficient Programming

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





# Improving Online Presence

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Linked 



WORDPRESS



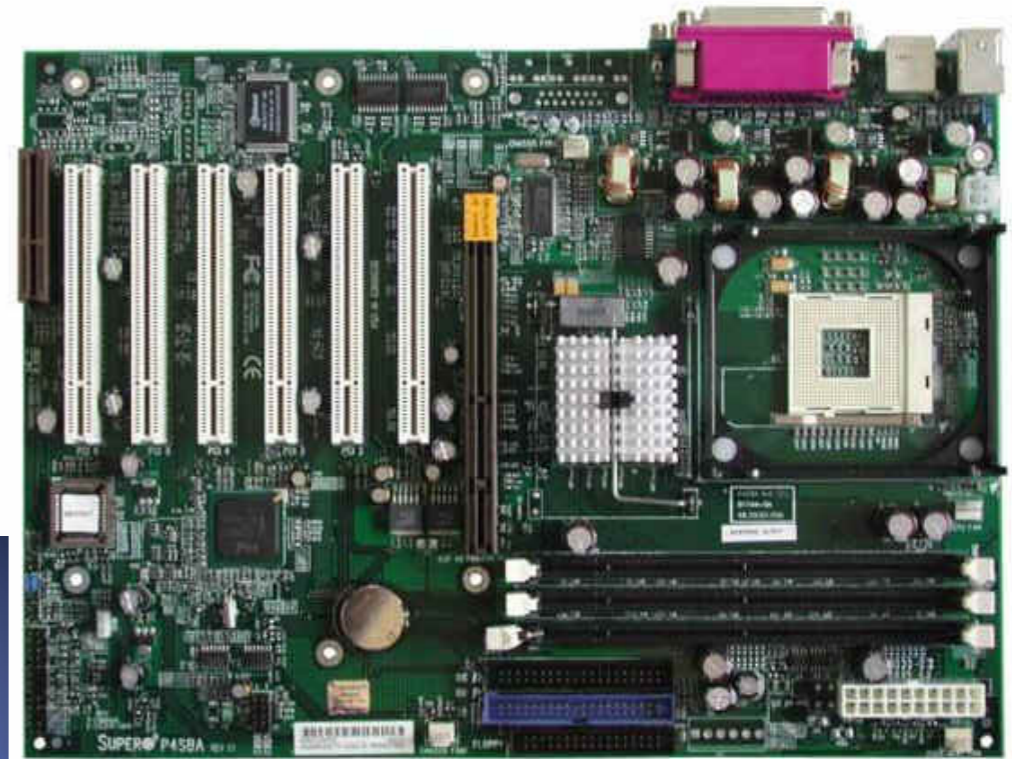
# Cracking the GATEs of IITs/IISc

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1. Choose your favorite GATE subjects
2. Read and understand all text books
3. Start preparing before 7<sup>th</sup> 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



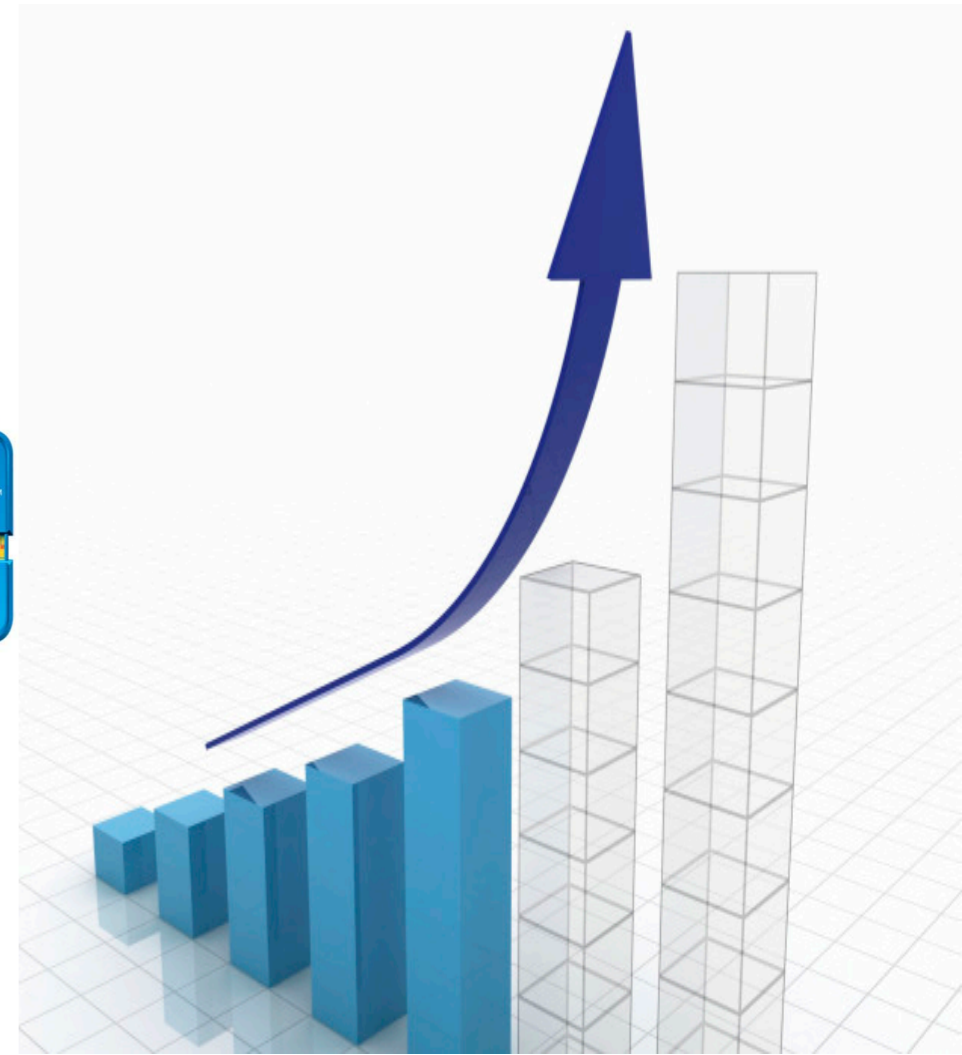
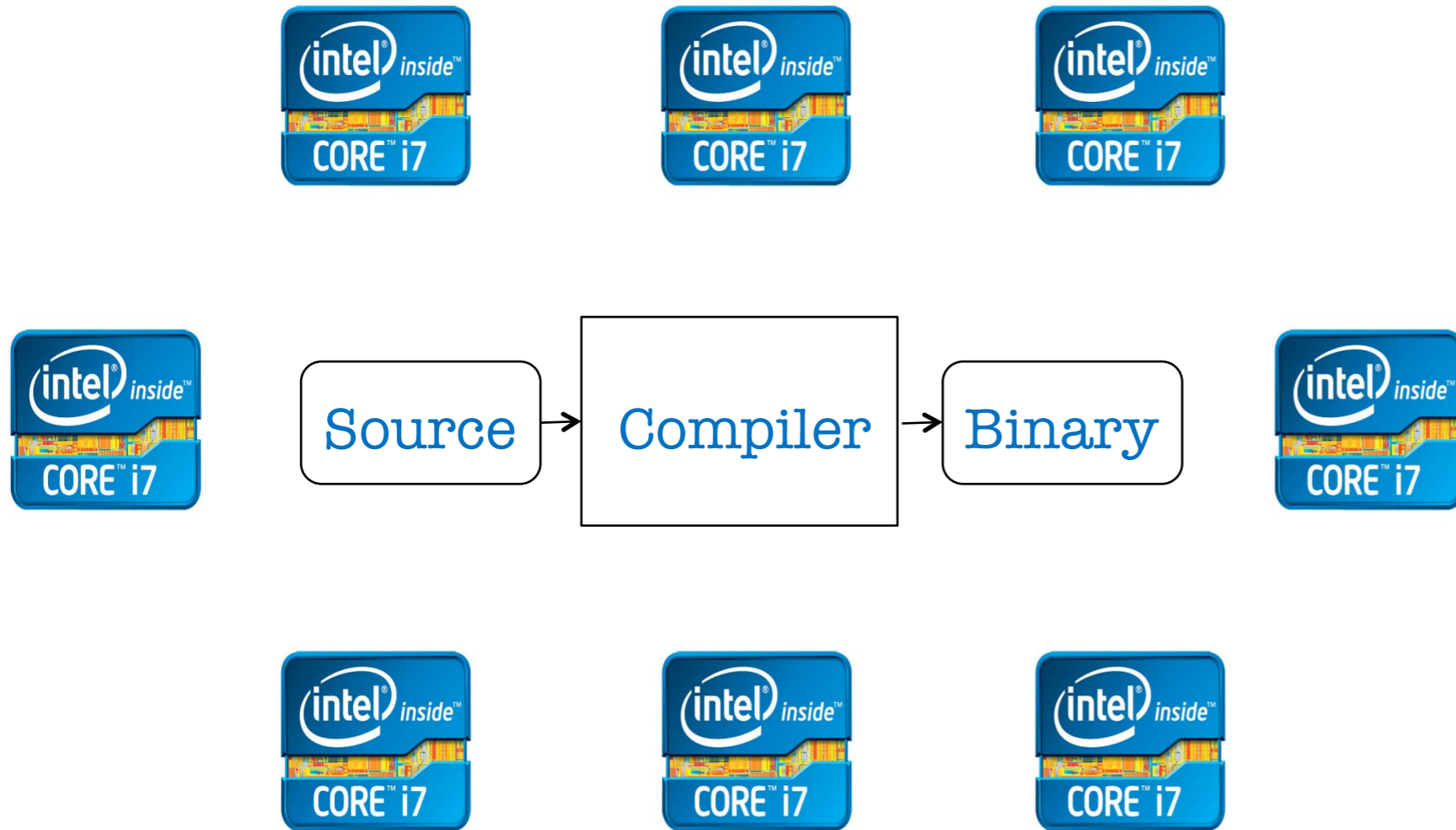
# Research in Computer Science



```
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];
        ar[j-1] = ar[j];
        ar[j] = temp;
      }
    }
  }
}
```

$\sum_{i=0}^{n-1} O(i) = 1+2+3+\dots+(n-1) = O(n^2)$

# My Work



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# Welcome to Chennai



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# Welcome to IIT Madras



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# Stay Hungry, Stay Foolish, Stay Connected

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