



Introduction to Programming

What is programming?



- You give a set of instructions to the computer
- The computer executes all instructions in a specific order
- There should be enough information for the computer to decide what to do in all situations
- These instructions or steps are called a program or code
- Does computer understand English?
 - Programming language

Some Issues !!



- What if you don't give the instructions correctly?
- What if some instruction fails?
- What if even after correct execution you get wrong result?
- What if it takes too long to complete the instructions?
- What if it takes too many resources to complete the instructions?

Programming Language



- Why so many programming languages?
- Does it matter which one you learn first?
- How easy it is to switch between languages?

Competitive Programming



- Many people competing to
 - Write the code that gets executed fastest
 - Write the code that uses minimum resources
 - Do this faster than others
- How is it different from normal programming?
- Best programming language CP
 - C++
- How is competitive programming useful?