

Computer Programming

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Session: Dumbo moves to C++

Recap



- We know how to write a program for Mr. Dumbo
- We saw how Dumbo executes a program

Overview of This Session



- We will see the possible problems, when Dumbo executes input/output operations interactively
 - A solution to the problem
- Moving over to C++
 - Similarity between a Dumbo program and a C++ program

Interactive input output



- Let us assume that we use
 - Keyboard for supplying input values to Mr. Dumbo
 - Monitor, on which Mr. Dumbo displays output values
- Problem
 - Mr Dumbo executes the instruction
Input NBOYS;

Mr Dumbo executes: Input NBOYS;



Instruction to Output a Message



Output `"Enter Number of Boys";`

- Mr. Dumbo shows us the string enclosed in double quotes
- Our output can be made more meaningful too

Modified program for Dumbo

Use locations NBOYS, NGIRLS, NSTUDENTS;

Output "Enter number of boys ";

Input NBOYS;

Output "Enter number of girls ";

Input NGIRLS;

$NSTUDENTS = NBOYS + NGIRLS;$

Output "The total number of students is ";

Output NSTUDENTS;

Input Output operations



- Mr. Dumbo executes the modified program

A C++ Program for finding NSTUDENTS



```
{ int NBOYS, NGIRLS, NSTUDENTS;
  cout << "Enter number of boys ";
  Cin >> NBOYS;
  cout << "Enter number of girls ";
  cin >> NGIRLS;
  NSTUDENTS = NBOYS + NGIRLS;
  cout << "The total number of students is ";
  cout << NSTUDENTS;
  return 0;
}
```

Summary



- We have understood how interactive I/O can be handled
- We have learnt what an actual computer program looks like
 - A C++ program does look familiar now

Next, we will see C++

Thank You