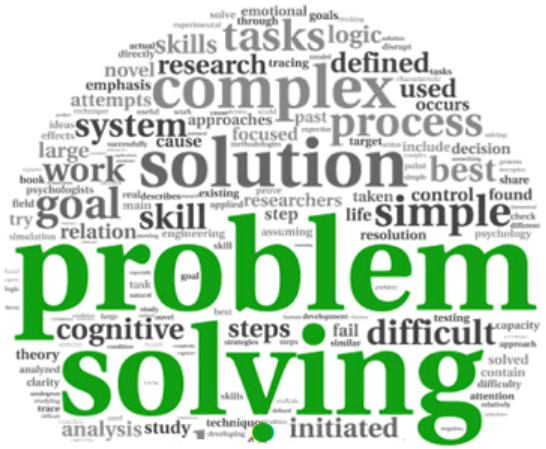
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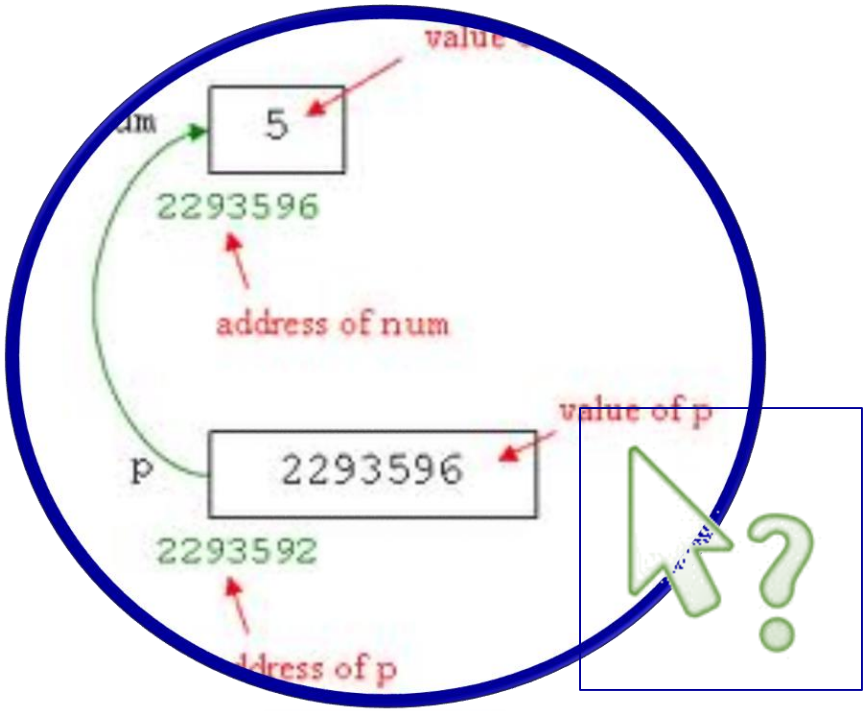
CSE 1051



Pointers S15-2

Objectives

- To learn and appreciate the following concepts:
  - Concept of Basic Pointers – declaration and initialization

Session outcome

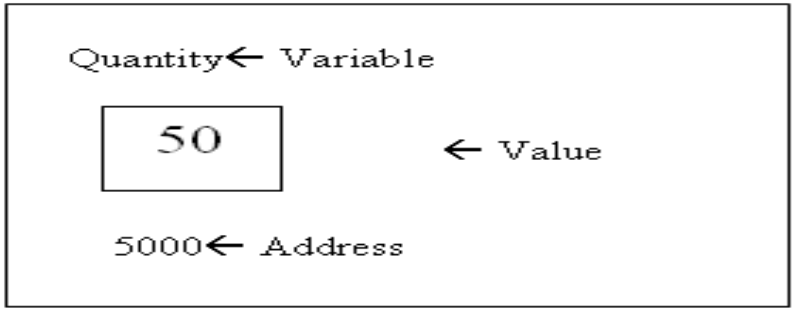
- At the end of session one will be able to:
    - Understand the concept of Basic Pointers

Pointers - Concept

- Consider the following statement

  int Quantity =50;

- Compiler will allocate a memory location for Quantity and places the value in that location. Suppose the address of that location is 5000, then



Pointers - Concept

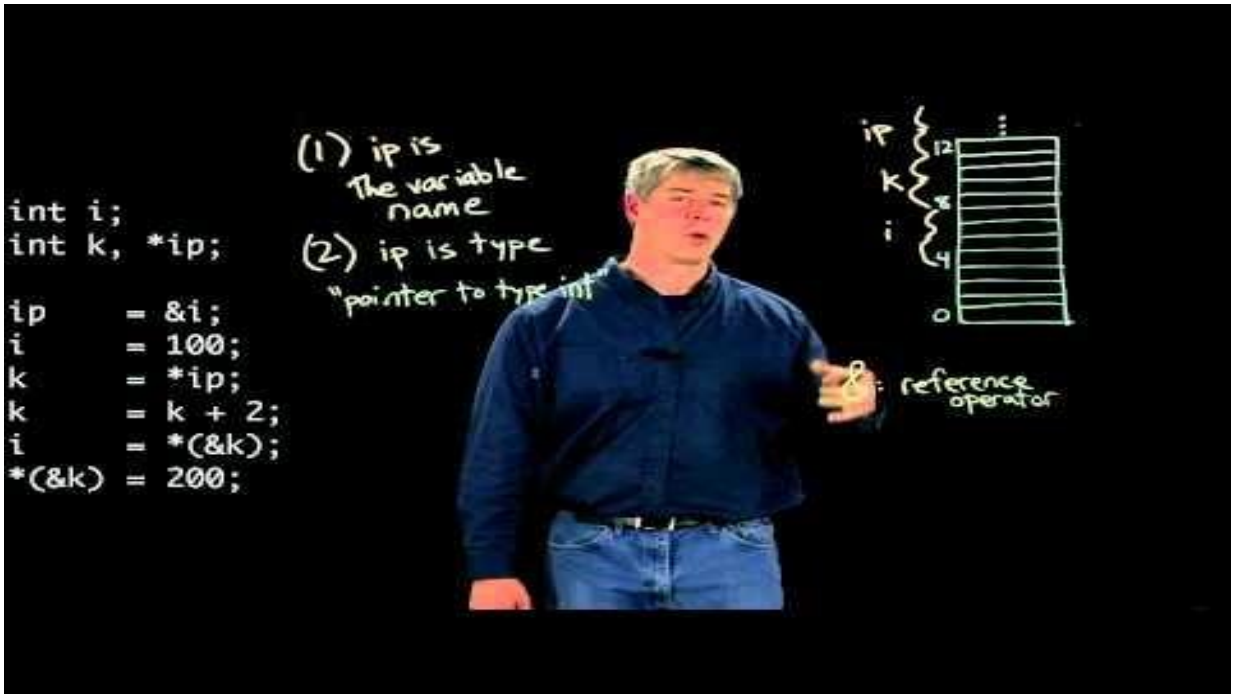
- During Execution of the program, the system always associates the name quantity with the address 5000.
- We may have access to the value 50 by using either the name of the variable quantity or the address 5000.
- Since memory addresses are simply numbers, they can be assigned to some variables which can be stored in memory, like any other variable.

Pointer

- A memory location or a variable which stores the address of another variable in memory

- Commonly used in C than in many other languages (such as BASIC, Pascal, and certainly Java, which has no pointers).

Basics of Pointer



https://www.youtube.com/watch?v=47IS8VtAM9E

Go to posts/chat box for the link to the question **PQn. S15.2**

submit your solution in next 2 minutes

The session will resume in 3 minutes

Declaring and initializing pointers

- Syntax:

  data_type * pt_name;

- This tells the compiler 3 things about the pt_name:
  - The asterisk(*) tells the variable pt_name is a pointer variable.
  - pt_name needs a memory location.
  - pt_name points to a variable of type data_ type

Summary

- Pointers – declaration and initialization