

CmpE 150 - Week 9

Section - 04

7th quiz today

- Start: 12:00
- End: 12:20
- Be careful! **Do not** write extra things other than required, otherwise automatic grading **does not** give your points!
- No cell phones, no personal computers!

Recap

- Pointers
- Call by reference

Last week's homework @ <https://github.com/melsener/cmpe150>

Arrays

- An array is a group of **contiguous** memory locations that all have the **same type**
- To access a particular location or element in the array, we specify the array's name and the index of the particular element in the array.
- The first element in every array is the **zeroth** element.
- The position number within square brackets is called a **subscript**. A subscript must be an integer or an integer expression.

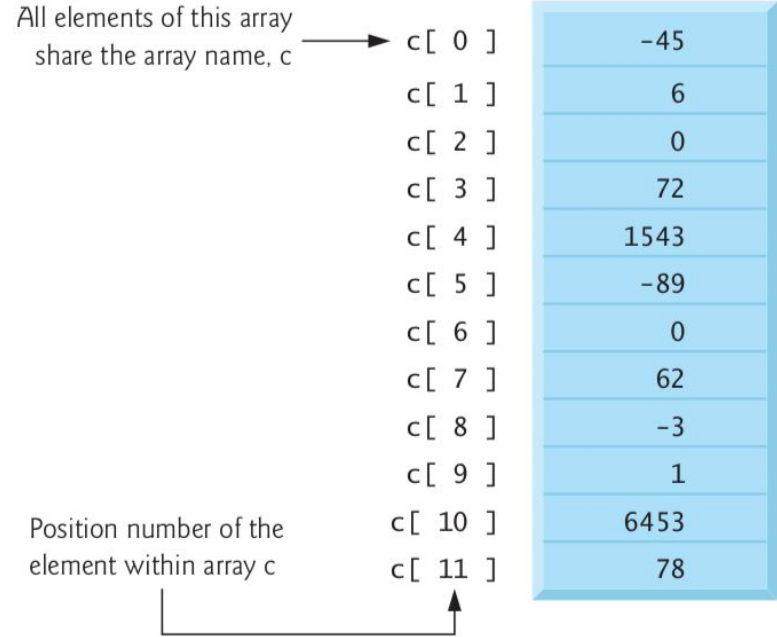


Fig. 6.1 | 12-element array.

Defining Arrays

- `data_type var_name[number_of_elements];`
 - `int myarray[5];`

Initializing Arrays

- `data_type var_name[number_of_elements] = {item_0, ..., item_n};`
 - `int myarray = {1,2,5,6,7};`
- `data_type var_name[] = {item_0, ..., item_n};`
 - `int myarray[] = {1,2,5,6,7};`
- `data_type var_name[number_of_elements];`
`var_name[0] = item_0;`
`var_name[1] = item_1;`
`....`
 - `int array[3];`
`array[0] = 5;`
`array[1] = 4;`
`array[2] = 3;`