Array

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Definition

- An array is a finite set of variable of the same data type
- Exampe

Index	0	1	2	3	4	5	6	7	8
a	3	5	4	3	8	7	9	12	34

How to use…

- Declares:
  - The first method:

    <data_type> <name_array>[number_nember];
  - The second method, etc, …: self_study
- Access:

  <name_array>[index]
- Example:

```
int a[10];
a[0] = 3;
a[1] = 7;
…
int b = (a[0]*3 + a[1])/4;
```

Examples

- For an array is declared as follow:

  int temperature[7];

- Write a program to input 7 integer numbers into an array above.
- Determine the maximum value entered and show the index number for the maximum value in array above.

Solve

```
void main(){
        int temperature[7];
        int maximum, index;
        for(int i = 0; i < 7; i++){
                printf("Temperature[%d]", i);
                scanf("%d", &temperature[i]);
        }
        maximum = temperature[0];  index = 0;
        for(int i = 0; i < 7; i++)
                if (temperature[i] > maximum){
                        maximum = temperature[i];
                        index = i;
                }
        printf("The maximum value is: %d", maximum);
        printf("This is number %d in the list of number", %d);
        getch();
}
```

Exercises

- Visit to my website to get it

The end

The end of course