



programming language(C)

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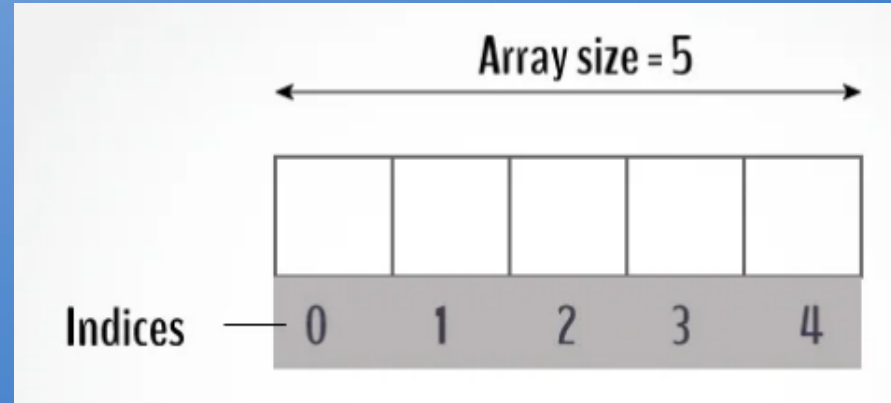


C Arrays

`dataType arrayName[arraySize];`



`int myarr[5];`



Example

```
int myarr [5] = {19, 10, 8, 17, 9};
```



Example 2

```
#include <stdio.h>
#include <stdlib.h>
```

```
int main(){
    int i=0;
    int marks[5]={20,30,40,50,60};

    for(i=0;i<5;i++){
        printf("%d \n",marks[i]);
    }
    return 0;
}
```

C:\Users\user\Desktop\os\j\bin\Debug\

20
30
40
50
60

Process returned 0 (0x0) exe
Press any key to continue.



Example 3

```
int main()
{
    int values[5];

    printf("Enter 5 integers: ");

    for(int i = 0; i < 5; ++i) {
        scanf("%d", &values[i]);
    }

    printf("Displaying integers: ");

    for(int i = 0; i < 5; ++i) {
        printf("%d\n", values[i]);
    }

    return 0;
}
```

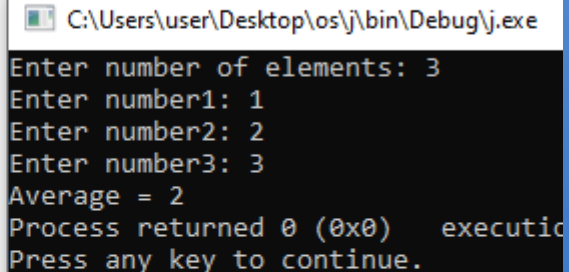
```
C:\Users\user\Desktop\os\j\bin\Debug\j.exe
Enter 5 integers: 1 2 5 3 8
Displaying integers: 1
2
5
3
8

Process returned 0 (0x0)   execution time :
Press any key to continue.
```




Example 4

```
int main() {  
  
    int marks[10], i, n, sum = 0, average;  
  
    printf("Enter number of elements: ");  
    scanf("%d", &n);  
  
    for(i=0; i < n; ++i) {  
        printf("Enter number%d: ", i+1);  
        scanf("%d", &marks[i]);  
  
        sum += marks[i];  
    }  
  
    average = sum / n;  
    printf("Average = %d", average);  
  
    return 0;  
}
```



C:\Users\user\Desktop\os\j\bin\Debug\j.exe
Enter number of elements: 3
Enter number1: 1
Enter number2: 2
Enter number3: 3
Average = 2
Process returned 0 (0x0) execution time: 0.000 s
Press any key to continue.

Example 5

```
#include <stdio.h>
#include <stdlib.h>

void main ()
{
    int i, j, temp;
    int a[10] = { 10, 9, 7, 101, 23, 44, 12, 78, 34, 23};
    for(i = 0; i<10; i++)
    {
        for(j = i+1; j<10; j++)
        {
            if(a[j] > a[i])
            {
                temp = a[i];
                a[i] = a[j];
                a[j] = temp;
            }
        }
    }
    printf("Printing Sorted Element List ...\n");
    for(i = 0; i<10; i++)
    {
        printf("%d\n", a[i]);
    }
}
```

C:\Users\user\Desktop\os\j\bin\Debug\j.exe

Printing Sorted Element List ...

101
78
44
34
23
23
12
10
9
7

Process returned 2 (0x2) execution t
Press any key to continue.



*Thank
You*