```c
// Write a c program to reverse the array elements.

# include<stdio.h>
int main (){
    int array1[5] ={1,2,3,4,5};
    int array2[5];
    for (int i = 0; i < 5; i++)
    {
        array2[4-i]=array1[i];
    }
    for (int i = 0; i < 5; i++)
    {
       printf("%d ",array2[i]);
    }

    return 0;
}

/*
5 4 3 2 1
*/
```

```c
// WAP to store 16 elements in an 1D array and find largest and smallest
element in the array.

#include <stdio.h>

int main(){
    int max = 0;
    int min = 0;

    int arr[16] = {};
    printf("Enter value\n");
    for (int i = 0; i < 16; i++)
    {
        printf(": ");
        scanf("%d", &arr[i]);
    }

    max = min = arr[0];
    // min = arr[0];

    for (int i = 0; i < 16; i++)
    {
        if(arr[i]>max){
            max = arr[i];
        }
        if(arr[i]<min){
            min = arr[i];
        }
    }

    printf("Maximum = %d\nMinimum = %d", max, min);

    return 0;
}

/*
Enter value
: 1
: 2
: 3
: -5
: -6
: -7
: 20
: 0
: 7
: 63
: -127
: 152
: 44
: 785
```

```
: -150
: 99
Maximum = 785
Minimum = -150
*/
```

```c
// WAP to store 13 elements in an 1D array and search an element which is
given by the user.

#include <stdio.h>

int main(){
    int array1[13] = {};
    int search;
    int count = 0;
    printf("Enter value\n");
    for (int i = 0; i < 13; i++)
    {
        printf(": ");
        scanf("%d", &array1[i]);
    }

    printf("\nWhich element you want to search : ");
    scanf("%d", &search);

    for (int i = 0; i < 13; i++)
    {
        if(search==array1[i]){
            count++;
        }
    }

    if(count!=0){
        printf("Element found !!");
    }
    else{
        printf("Element not found !!");
    }
    return 0;
}

/*
Enter value
: 1
: 2
: 3
: 4
: 5
: 6
: 7
: 87
: 9
: 10
: 11
: 12
: 13
```

```
Which element you want to search : 87
Element found !!
*/
```

```c
// WAP to enter marks of a student and find percentage of marks using array.

#include<stdio.h>
int main(){
    int arr1[5];
    float sum=0;
    printf("Enter marks of 5 subject out of 100:-\n");
    for (int i = 0; i < 5; i++)
    {
        scanf("%d",&arr1[i]);
    }
    for (int i = 0; i < 5; i++)
    {
        sum=sum+arr1[i];
    }
    printf("The marks obtained by student is %.2f %%",(sum/5));

    return 0;
}

/*
Enter marks of 5 subject out of 100:-
85
95
75
99
97
The marks obtained by student is 90.20 %
*/
```