

// Q17. Write a C Program to Find the Maximum and Minimum in an Array.

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

```
int main()
{
    int n;
    printf("Enter Size of an Array: ");
    scanf("%d",&n);
    int A[n];
    for (int i=0;i<n;i++)
    {
        printf("Enter Element %d: ",i+1);
        scanf("%d",&A[i]);
    }
    int t;
    for (int i=0;i<n;i++)
    {
        for (int j=i+1;j<n;j++)
        {
            if (A[i] < A[j])
            {
                t=A[i];
                A[i]=A[j];
                A[j]=t;
            }
        }
    }
    printf("The Largest Element in an Array is %d.\n",A[0]);
    printf("The Smallest Element in an Array is %d.\n",A[n-1]);
}
```

Output:

Enter Size of an Array: 5

Enter Element 1: 3

Enter Element 2: -5

Enter Element 3: 6

Enter Element 4: -12

Enter Element 5: 4

The Largest Element in an Array is 6.

The Smallest Element in an Array is -12.