```
1 #include <iostream>
   #include <math.h>
3
    using namespace std;
4
    void printarray (int a [] ,int size )
        cout << "printing .... " << endl ;</pre>
6
7
        for (int i = 0 ; i < size ; i ++ )</pre>
8
9
            cout << a [i] << " ";
10
        cout << endl ;</pre>
11
12
13
    float arrayaverage (int a [] , int size )
14
15
   int sum = 0 ;
    for (int i=0 ; i< size ; i ++ )</pre>
16
17
18
        sum+=a[i];
19
20
   return sum *1.0 / size ;
21
22
    int maxarray (int a [] , int size )
23
24
    int max = a [0] ;
25
   for (int i = 0 ; i < size ; i++)</pre>
26
27
        if (a [i] > max )
28
            max = a [i] ;
29
30
   return max ;
31
32
   int minarray (int a [] , int size )
33
34
35
   int min = a [0] ;
   for (int i = 0 ; i < size ; i++)</pre>
36
37
        if (a [i] < min )
38
39
            min = a [i] ;
40
41
    return min;
42
43
    void sortarray(int a[] , int size)
44
        45
46
47
            for (int j = 0 ; j < size - 1 ; j ++ ) // comparison in each iteration , it can be also j < size - 1 - i .
48
49
                if (a [j] > a [j+1] )
50
51
                    int temp = a[j] ; a[j] = a [j+1] ; a[j+1] = temp ;
52
53
54
55
56
57
58
59
   int medianarray ( int a [] , int size )
60
61
        sortarray ( a , size ) ;
        return a [size / 2];
62
63
64
65
    int main ()
66
    const int size = 7;
67
68
    int x[size] = \{6, 5, 3, 1, 2, 4, 7\};
69
70 cout << "Array average = "<< arrayaverage ( x , size ) << endl ;
    cout << "minimum = " << minarray(x , size) << endl ;</pre>
71
    cout << "maximum = " << maxarray(x , size) << endl ;</pre>
72
73 printarray ( x , size ) ;
74
    sortarray ( x , size ) ;
75
    printarray (x , size ) ;
76
   cout << "Median = " << medianarray (x , size ) << endl ;</pre>
77
        return 0;
78
```