

```
1 using System;
2
3 namespace CodeFight_Test
4 {
5     class Program
6     {
7         public static double ArrayMedianTest(int[] X)
8         {
9             Array.Sort(X);
10            int arrayLength = X.Length;
11            int middleNumber = arrayLength / 2;
12            double medianOfArray = 0;
13            double a = X[middleNumber - 1];
14            double b = X[middleNumber];
15
16            if (arrayLength % 2 == 0)
17            {
18                medianOfArray = (a + b) / 2;
19            }
20            else
21            {
22                medianOfArray = X[middleNumber];
23            }
24
25            return medianOfArray;
26        }
27
28        static void Main(string[] args)
29        {
30            int[] input1 = { 0, 2, 5, 3, 9, 15, 12 };
31
32            Console.WriteLine("The result of the odd array of integer with
33                                length of {0} is below:", input1.Length);
34
35            Console.WriteLine(ArrayMedianTest(input1));
36
37            Console.WriteLine("Press Any Key to Continue");
38
39            Console.ReadLine();
40
41            int[] input2 = { 0, 2, 5, 3, 9, 15, 12, 18 };
42
43            Console.WriteLine("The result of the even array of integer with
44                                length of {0} is below:", input2.Length);
45
46            Console.WriteLine(ArrayMedianTest(input2));
47
48            Console.WriteLine("Press Any Key to Exit!");
49        }
50    }
51 }
```

```
48         Console.ReadLine();
49     }
50 }
51 }
52
```

The result of the odd array of integer with length of 7 is below:

5

Press Any Key to Continue

The result of the even array of integer with length of 8 is below:

7

Press Any Key to Exit!