



## Running Median

Programiz

C++ Online Compiler

Interactive C++ Course

main.cpp

Run

Output

Clear

```

1 #include <iostream>
2 #include <algorithm>
3 #include <vector>
4
5 using namespace std;
6
7 void quick_sort(vector<int>& array, int left, int right);
8 int partition(vector<int>& array, int left, int right, int
  pivotIndex);
9 void print_array(vector<int>& array, int size);
10 double find_median(vector<int>& array);
11
12 int main()
13 {
14     vector<int> array;
15     int n;
16
17     cout << "Please enter the size of the array: ";
18     cin >> n;
19
20     cout << "Please enter the array elements: ";

```

```

Sorted array so far: 12
Running median: 12
Sorted array so far: 3 12
Running median: 7.5
Sorted array so far: 3 12 23
Running median: 12
Sorted array so far: 3 4 12 23
Running median: 8
Sorted array so far: 3 4 12 23 3249
Running median: 12
Sorted array so far: 3 4 12 23 32 3249
Running median: 17.5
Sorted array so far: 3 4 12 23 23 32 3249
Running median: 23
Sorted array so far: 3 4 12 12 23 23 32 3249
Running median: 17.5
Sorted array so far: 3 4 12 12 23 23 32 34 3249
Running median: 23
Sorted array so far: 3 4 12 12 23 23 32 34 3249
Running median: 17.5

```

[github link](#)