```
1 #include <iostream>
2 #include <iomanip>
3
4
    using namespace std;
5
6
    int main()
       const int rows = 100 ; const int cols = 100 ;
8
9
       int arr[rows][cols] ;
       srand(time(0));
10
                           // TO CHANGE RONDOM NUMBERS GENERATED EACH RUN ( TIME IS ALWAYS CHANGEABLE )
       for (int i = 0 ; i<rows ; i++)</pre>
11
12
13
           for (int j = 0 ; j < cols ; j++)</pre>
14
15
               16
17
       int counter = 0 ;
18
19
20
       for (int i = 1; i < rows -1; i + +) // To ignore first and last (row and column)
21
           for (int j = 1 ; j < cols-1 ; j++)</pre>
22
23
24
              if ( arr[i][j] < arr[i-1][j-1] &&
25
                    arr[i][j] < arr[i][j-1] &&
                    arr[i][j] < arr[i+1][j-1] &&
26
27
                    arr[i][j] < arr[i-1][j] &&
arr[i][j] < arr[i+1][j] &&</pre>
28
29
30
31
                    arr[i][j] < arr[i-1][j+1] &&
                    arr[i][j] < arr[i][j+1] &&
32
33
                    arr[i][j] < arr[i+1][j+1] )
34
35
                    counter ++ ;
36
37
          }
38
39
       for (int i = 0 ; i<rows ; i++)</pre>
40
41
42
           for (int j = 0 ; j < cols ; j++)</pre>
43
              cout << arr[i][j] << " " ;</pre>
44
45
46
47
48
49
       cout << endl ;</pre>
50
       cout << "No of values satisfy conditions " << counter << endl ;</pre>
51
52
53
54
55
56
        return 0;
57
58
```