

```

1  #include <iostream>
2  #include <stdlib.h> // random number
3  #include <time.h> // for time
4  using namespace std;
5
6  void IterativePrint(int* arrayPtr, int size){
7
8      for (int index = 0; index < size; index++){
9          cout << arrayPtr[index] << " ";
10
11         cout << endl;
12
13     }
14
15
16     void RecursivePrint(int* arrayPtr, int size, int printIndex){
17
18         if (printIndex == size){
19             cout << endl;
20             return;
21
22         }
23
24         cout << arrayPtr[printIndex] << " ";
25
26         RecursivePrint(arrayPtr, size, printIndex+1);
27
28         cout << arrayPtr[printIndex] << " ";
29
30     }
31
32
33     int main(){
34
35         int arraySize;
36         cout << "Enter an array size: ";
37         cin >> arraySize;
38
39         int maxValue;
40         cout << "Enter the max. value of an element: ";
41         cin >> maxValue;
42
43         srand(time(NULL));
44
45         int array[maxValue];
46
47         for (int i = 0; i < arraySize; i++){
48             array[i] = rand() % maxValue;
49         }
50
51         cout << "IterativePrint: ";
52         IterativePrint(array, arraySize);
53
54         cout << "RecursivePrint: ";
55         RecursivePrint(array, arraySize, 0);
56
57     return 0;
58 }

```

```

Enter an array size: 10
Enter the max. value of an element: 50
IterativePrint: 29 23 13 31 45 40 13 4 9 11
RecursivePrint:
29 23 13 31 45 40 13 4 9 11
11 9 4 13 40 45 31 13 23 29

```