



RIPHAH  
INTERNATIONAL UNIVERSITY

Name = Muhammad Waleed Sattar

SAP = 55700

Section = BS SE 3-2

DSA LAB 11:

Task 1:

D: > DSA > DSA LAB > Lab 11 > Task\_1.cpp > main()

```
19 void printArray(int arr[], int n)
21     for (int i = 0; i < n; i++)
24         }
25         cout << endl;
26     }
27
28 int main()
29 {
30     int w1,w2,w3;
31     int arr1[] = {2, 3, 5, 7, 9, 11, 13, 15, 17, 19};
32     w1 = sizeof(arr1) / sizeof(arr1[0]);
33
34     int arr2[] = {19, 11, 17, 5, 9, 13, 15, 7, 3, 2};
35     w2 = sizeof(arr2) / sizeof(arr2[0]);
36
37     int arr3[] = {5, 2, 8, 12, 3, 1, 6, 4, 10, 7};
38     w3 = sizeof(arr3) / sizeof(arr3[0]);
39 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\mwale> cd "d:\DSA\DSA LAB\Lab 11\" ; if ($?) { g++ Task_1.cpp -o Task_1 } ; if ($?) { .\Task_1 }
Sorted nearly sorted array: 2 3 5 7 9 11 13 15 17 19
Sorted completely unsorted array: 19 11 17 5 9 13 15 7 3 2
Sorted random array: 5 2 8 12 3 1 6 4 10 7
PS D:\DSA\DSA LAB\Lab 11>
```

## Task 2:

```
D:\> DSA > DSA LAB > Lab 11 > Task_2.cpp > main()
21 void printArray(int arr[], int n)
23     for (int i = 0; i < n; i++)
26     }
27     cout << endl;
28 }
29
30 int main()
31 {
32
33     int w1, w2, w3;
34
35     int arr1[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};
36     w1 = sizeof(arr1) / sizeof(arr1[0]);
37
38     int arr2[] = {10, 9, 8, 7, 6, 5, 4, 3, 2, 1};
39     w2 = sizeof(arr2) / sizeof(arr2[0]);
40
41     int arr3[] = {5, 2, 8, 12, 3, 1, 6, 4, 10, 7};
42
43     printArray(arr1, w1);
44     printArray(arr2, w2);
45     printArray(arr3, w3);
46 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\mwale> cd "d:\DSA\DSA LAB\Lab 11\" ; if ($?) { g++ Task_2.cpp -o Task_2 } ; if ($?) { .\Task_2 }
Sorted already sorted array: 1 2 3 4 5 6 7 8 9 10
Sorted reverse sorted array: 10 9 8 7 6 5 4 3 2 1
Sorted random unsorted array: 5 2 8 12 3 1 6 4 10 7
PS D:\DSA\DSA LAB\Lab 11>
```