

Data Structure & Algorithm Lab (Assignment)

Snapshots of output

Q1:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS F:\Coding\UIU_Spring_2022> cd "f:\Coding\UIU_Spring_2022\Assignment\" ; if ($?) { gcc Q1.c -o Q1 } ; if ($?) { .\Q1 }

Enter N: 5

Old list: 14 9 11 3 14
New list: 14 14 9 11 3
PS F:\Coding\UIU_Spring_2022\Assignment> 
```

Q2:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS F:\Coding\UIU_Spring_2022> cd "f:\Coding\UIU_Spring_2022\Assignment\" ; if ($?) { gcc Q2.c -o Q2 } ; if ($?) { .\Q2 }
Enter the number : 15
1, 6, 25, 28, 35, 42, 46, 59, 62, 63, 65, 68, 70, 79, 82 occurred 1 times.
PS F:\Coding\UIU_Spring_2022\Assignment> 
```

Q3:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Q3.cpp:113:26: warning: NULL used in arithmetic [-Wpointer-arith]
    while(tmp->val != NULL)
                      ^~~~~

Enter N: 5
70 1 35 68 42
Input either 1|2 : 1
35 1 42 68 70
PS F:\Coding\UIU_Spring_2022\Assignment> cd "f:\Coding\UIU_Spring_2022\Assignment\" ; if ($?) { g++ Q3.cpp -o Q3 } ; if ($?) { .\Q3 }
Q3.cpp: In function 'node* seperateOddEven(node*, int)':
Q3.cpp:87:26: warning: NULL used in arithmetic [-Wpointer-arith]
    while(tmp->val != NULL)
                      ^~~~~

Q3.cpp:113:26: warning: NULL used in arithmetic [-Wpointer-arith]
    while(tmp->val != NULL)
                      ^~~~~

Enter N: 7
79 25 70 1 35 68 42
Input either 1|2 : 2
42 68 70 35 1 25 79
PS F:\Coding\UIU_Spring_2022\Assignment> 
```

Q4:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

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PS F:\Coding\UIU_Spring_2022> cd "f:\Coding\UIU_Spring_2022\Assignment\" ; if ($?) { gcc Q4.c -o Q4 } ; if ($?) { .\Q4 }
Enter an integer: 5

Main list:
42 68 35 1 70

Sorted list:
42 68 70 35 1
PS F:\Coding\UIU_Spring_2022\Assignment> cd "f:\Coding\UIU_Spring_2022\Assignment\" ; if ($?) { gcc Q4.c -o Q4 } ; if ($?) { .\Q4 }
Enter an integer: 7

Main list:
42 68 35 1 70 25 79

Sorted list:
42 68 70 79 35 25 1
PS F:\Coding\UIU_Spring_2022\Assignment> 
```

Q5:

```
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PS F:\Coding\UIU_Spring_2022> cd "f:\Coding\UIU_Spring_2022\Assignment\" ; if ($?) { gcc Q5.c -o Q5 } ; if ($?) { .\Q5 }
Enter value for N: 15
Cube root: 2.466
PS F:\Coding\UIU_Spring_2022\Assignment> cd "f:\Coding\UIU_Spring_2022\Assignment\" ; if ($?) { gcc Q5.c -o Q5 } ; if ($?) { .\Q5 }
Enter value for N: 27
Cube root: 3.000
PS F:\Coding\UIU_Spring_2022\Assignment> 
```

Q6:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Windows PowerShell
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PS F:\Coding\UIU_Spring_2022> cd "f:\Coding\UIU_Spring_2022\Assignment\" ; if ($?) { g++ Q6.cpp -o Q6 } ; if ($?) { .\Q6 }
10
41 inserted
85 inserted
72 inserted
38 inserted
80 inserted
69 inserted
65 inserted
68 inserted
96 inserted
22 inserted
PS F:\Coding\UIU_Spring_2022\Assignment> 
```