

❖ Array Rotation:

Explanation: -

The problem involves rotating an array to the left by d positions, meaning each element shifts to the left while the first d elements wrap around to the end of the array. The solution is implemented using recursion, where each call moves the first element to the end and recursively processes the remaining elements. The goal is to effectively transform the array based on the specified rotation count and output the modified array.

Time Complexity: - $O(n^2)$

Space Complexity: - $O(n)$

```
+-----+
|  Start  |
+-----+
      |
      v

+-----+
| Input Array Size |
+-----+
      |
      v

+-----+
| Input Array Elements |
+-----+
      |
      v

+-----+
| Input Rotation Count (d) |
+-----+
      |
      v

+-----+
| Normalize d (d = d % n)|
```

+-----+
|
v

+-----+
| Call rotateArray |
| (arr, d) |

+-----+
|
v

+-----+
| Output Array |
+-----+

|
v

+-----+
| End |
+-----+