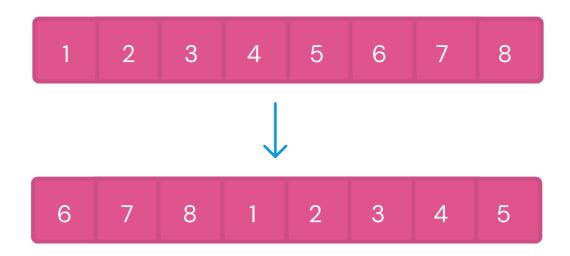
ARRAY ROTATIONS

Rotated array

An array is said to be n times rotated if all it's elements are shifted by n positions.

Example: Here is an array with length 8 rotated by 3 elements



Write a funtion to rotate given array by n elements

This problem can be solved by 4 methods

- using temp array
- rotating one by one for d times
- · reversal algorithm
- block swap algorithm

Method 1 (using temp array)

let us assume input to be arr=[2,3,4,8,6,8,9,10] and d=3.

Step 2- shift all elements by d elements;

Step 3- put temp array elements back in arr arr = [8,6,8,9,10,2,3,4]

Time complexity

we used three loops two loops d times and one loop n times. So time complexity will be =>O(n+d+d)

=> O(n+2d)

Auxiliary Space

we used temp array of length d to save elemest. So Auxiliary Space is O(d)