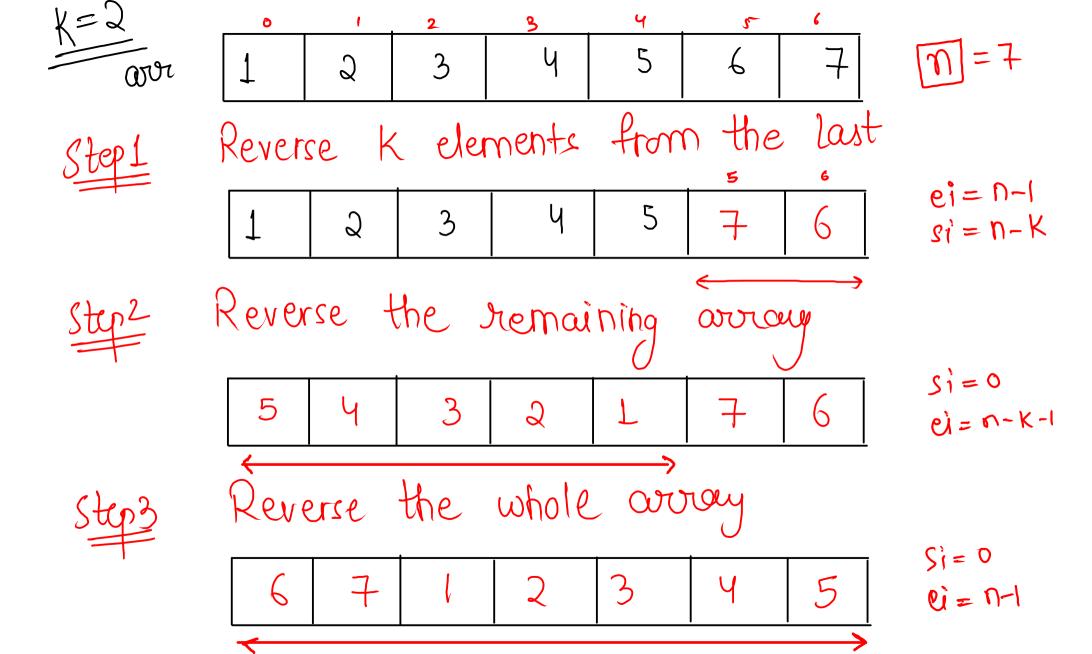
Rotate Right



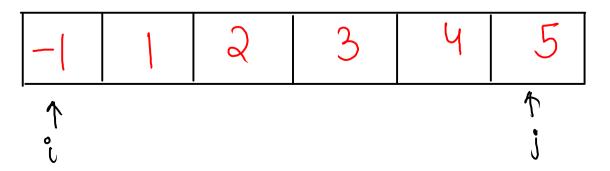
```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int[] arr = new int[n];
   for (int i = 0; i < n; i++) {
       arr[i] = scn.nextInt();
                                     n=7
K=4
   int k = scn.nextInt();
   // main logic
   // step1
                                 1/ reverse last k elements
   reverse(arr, n - k, n - 1);
   // step2
                                 11 reverse rest of element
  → reverse(arr, 0, n - k - 1);
   // step3
                                  1/ reverse whole array
   reverse(arr, 0, n - 1);
   for (int i = 0; i < n; i++) {
       System.out.print(arr[i] + " ");
public static void reverse(int[] arr, int si, int ei) {
   while (si < ei) {
       swap(arr, si, ei);
       si++;
       ei--;
public static void swap(int[] arr, int i, int j) {
   int temp = arr[i];
   arr[i] = arr[j];
    arr[j] = temp;
```

## **Reach Target**

$$n = 6$$
 $ovr = -1 1 2 3 4 5$ 
 $tw = 4$ 

$$ightharpoonup \int_{1+3}^{0+5} = 4$$

$$(-1) + (5) = 4$$
 target  
o 5  
 $(1) + (3) = 4$  target  
1 3



$$T.C = O(N)$$
  
 $S.C = O(1)$ 

Sibilities overli] + overlij] = sum
$$sum = 5 + (-1) = 4 = = target$$

$$sum = 1 + 4 = 5 > target$$

$$sum = 1 + 3 = 4 = = target$$

$$sum = 1 + 3 = 4 = = target$$

$$sum = 1 + 3 = 4 = = target$$

3) () sum == target; print ans =

code

```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int[] arr = new int[n];
   for (int i = 0; i < n; i++) {
       arr[i] = scn.nextInt();
   int target = scn.nextInt();
   targetSum(arr, n, target);
public static void targetSum(int[] arr, int n, int target) {
   int i = 0;
   int j = n - 1;
   while (i < j) {
       int sum = arr[i] + arr[j];
      if (sum == target) {
        System.out.println(i + " " + j);
         j++;
      } else if (sum > target) {
```

## **Target Sum**

```
public static void targetSum(int[] arr, int n, int target) {
Arrays.sort(arr); // sorted
    int j = n - 1;
   while ( i < i ) {
       int sum = arr[i] + arr[j];
       if (sum == target) {
            System.out.println(arr[i] + " " + arr[j]);
           // handle repetation
          -- while ( i < j && arr[i] == arr[i + 1] ) {
            while ( i < j && arr[j] == arr[j - 1] ) {
        } else if (sum > target) {
        } else {
           j++;
```

sum of 3 different element 3 Sum our  $\Rightarrow$  avr[i] + avr[j] + avr[k] = 0=> aurli] = - aurli] = - aurli]

```
public static void targetSum(int[] arr, int n) {
   Arrays.sort(arr);
                   // nlogn
   for (int i = 0; i < n; i++) {
   int target = -1 * arr[i];
    - int j = i + 1;
      int k = n - 1;
                                                         i=0, target = 8
      while (j < k) {
         int sum = arr[j] + arr[k];
         if (sum == target) {
                                                         (=1, taget = 2 (-2, -2, 4)
            System.out.println(arr[i] + " " + arr[j] + " " + arr[k]);
            k--;
         } else if (sum > target) {
                                                                                     (-2, 0, 2)
         } else {
            j++;
                                                         (=2, taget=2 (-2,0,2)
                                                         (=3, target=0
                                                       i=4, target=-2 (-2 __
i=5, target=-4 (-4 __
```