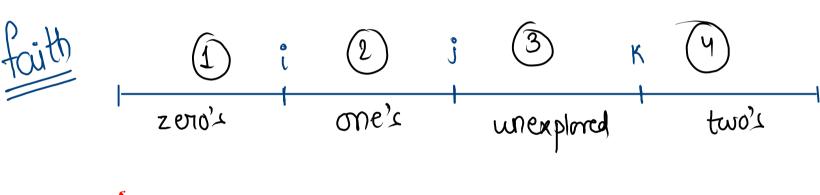
Rotate Right

Sort 0 1 2



$$i = 0$$

$$j = 0$$

$$K = N-1$$

 $\frac{1}{2} = \frac{1}{2} = \frac{1}$

Mote:- when swap j and k index then only move k--

```
public static void sort012(int[] arr, int n) {
   int i = 0;
   int j = 0;
   int k = n - 1;
   while ( j <= k ) {
       if ( arr[j] == 1 ) {
            j++;
        } else if ( arr[j] == 0 ) {
            swap(arr, i, j);
            j++;
            j++;
        } else if ( arr[j] == 2 ) {
            swap(arr, j, k);
           k--;
       }
   // print
   for (int a = 0; a < n; a++) {
        System.out.print(arr[a] + " ");
public static void swap(int[] arr, int x, int y) {
   int temp = arr[x];
   arr[x] = arr[y];
   arr[y] = temp;
```

Reach Target

$$N = 6$$

 $Cory = [-1, 1, 2, 3, 4, 5]$
 $target = 4$
 $ans = 0, 5$ index
 $1, 3$

$$con = [-1, 1, 2, 3, 4, 5]$$
 $con = [-1, 1, 2, 3, 4, 5]$
 $con = [-1, 1, 2, 3, 4, 5]$
 $con = [-1, 1, 2, 3, 4, 5]$

sum = 4 5

Mote: approch will only work if array is sorted

```
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();
    reachTarget(arr, n, target);
public static void reachTarget(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);
        } else if ( sum < target ) {</pre>
```

Target Sum (very gmp)

Souray is not sorted Somay contain duplicates Somly print unique pair

twiget = 6

Case target = fConfidence of the sound of the sound

 $\frac{\varepsilon_{2}}{2}$ [1 2 2 2 2] $\frac{1}{2}$

```
code
```

```
public static void targetSum(int[] arr, int n, int target) {
    Arrays.sort(arr);
    int i = 0;
    int j = n - 1;
    while ( i < j ) {
        int sum = arr[i] + arr[j];
        if ( sum < target ) {</pre>
            j++;
        } else if ( sum > target ) {
            j--;
        } else if ( sum == target ) {
            System.out.println(arr[i] + " " + arr[j]) ;
            j++;
            j--;
            while ( i < j && arr[i] == arr[i - 1] ) {
                j++;
            }
            while ( i < j && arr[j] == arr[j + 1] ) {
                j--;
        }
```