

# GKSTR35 Count\_Even

```
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 ans = countEven(arr, n);
    System.out.println(ans);
}

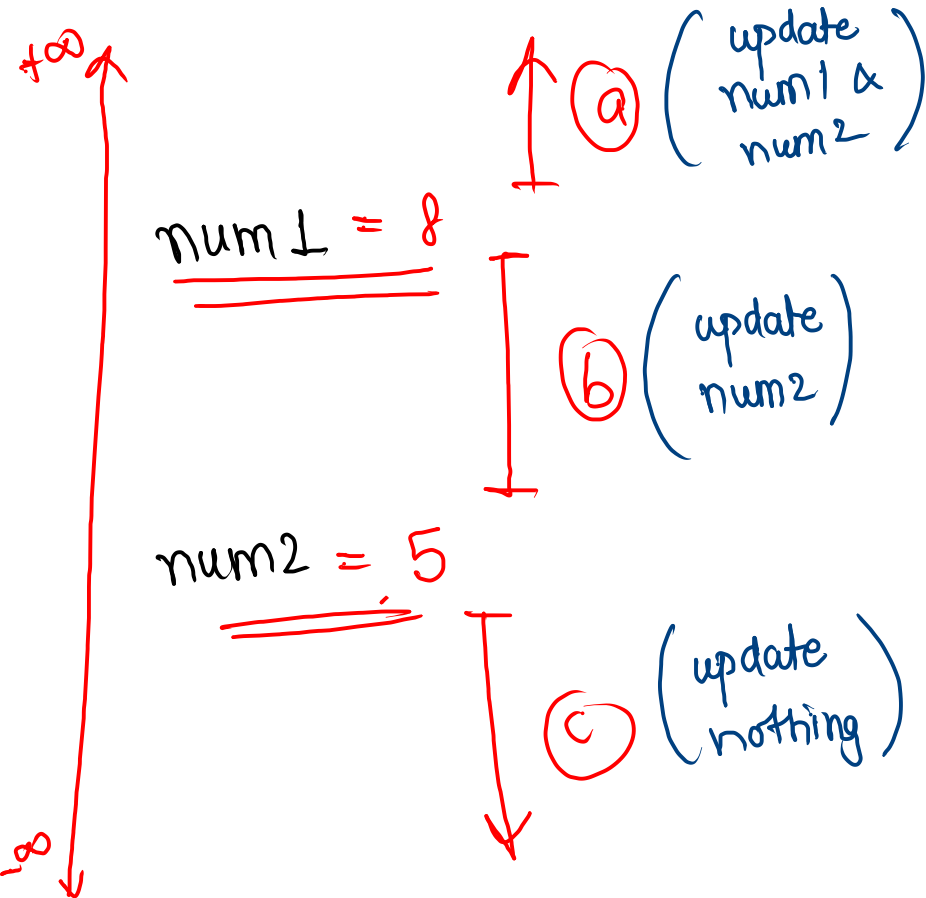
public static int countEven(int[] arr, int n) {
    int count = 0;
    for (int i = 0; i < n; i++) {
        if ( arr[i] % 2 == 0 ) {
            count++;
        }
    }
    return count;
}
```

## HW\_Second Largest in array 2

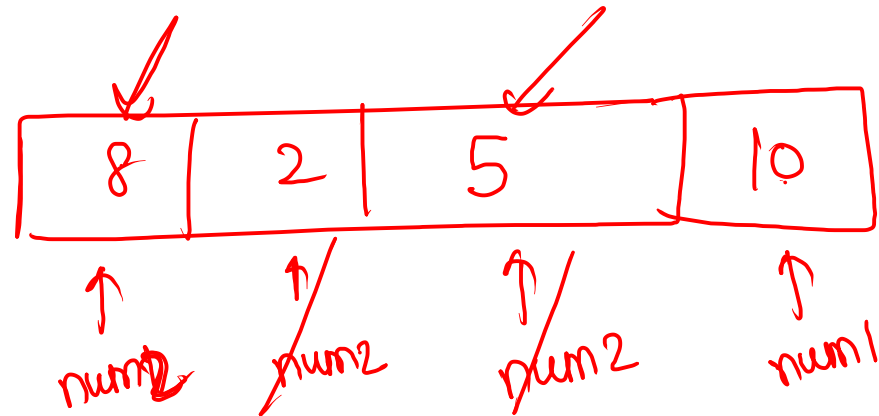
TLE :- Time limit exceed

arr

5	1	0	2	3	7	6	4	8	9	11	10	15	12	20
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----



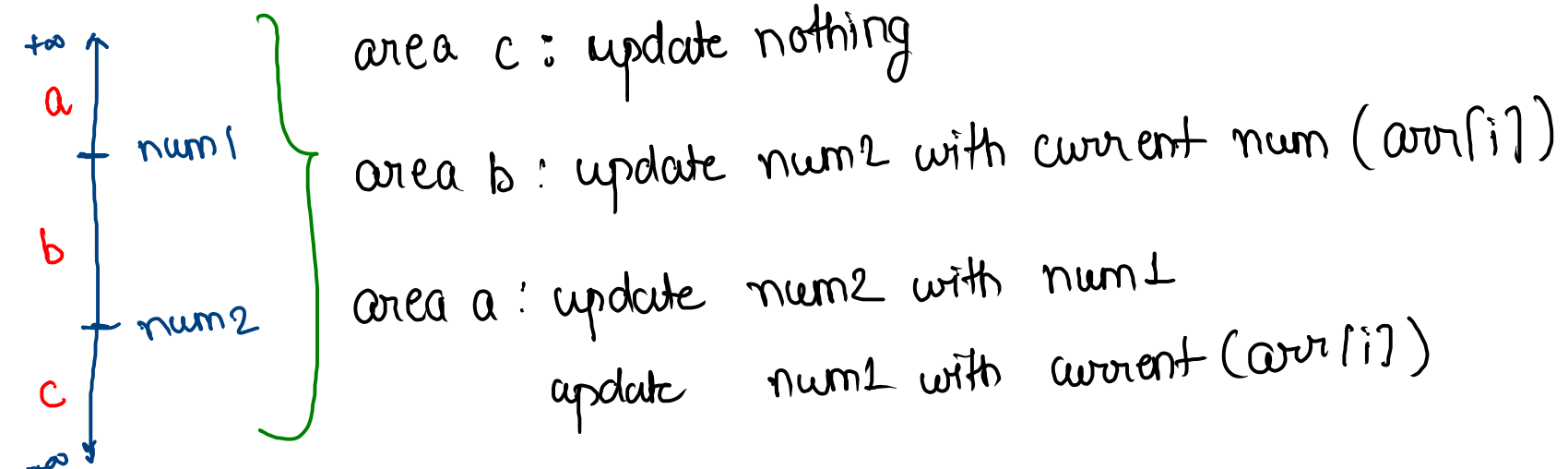
arr[i] = 10



arr

5	1	0	2	3	7	6	4	8	9	11	10	15	12	20
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----

logic:-



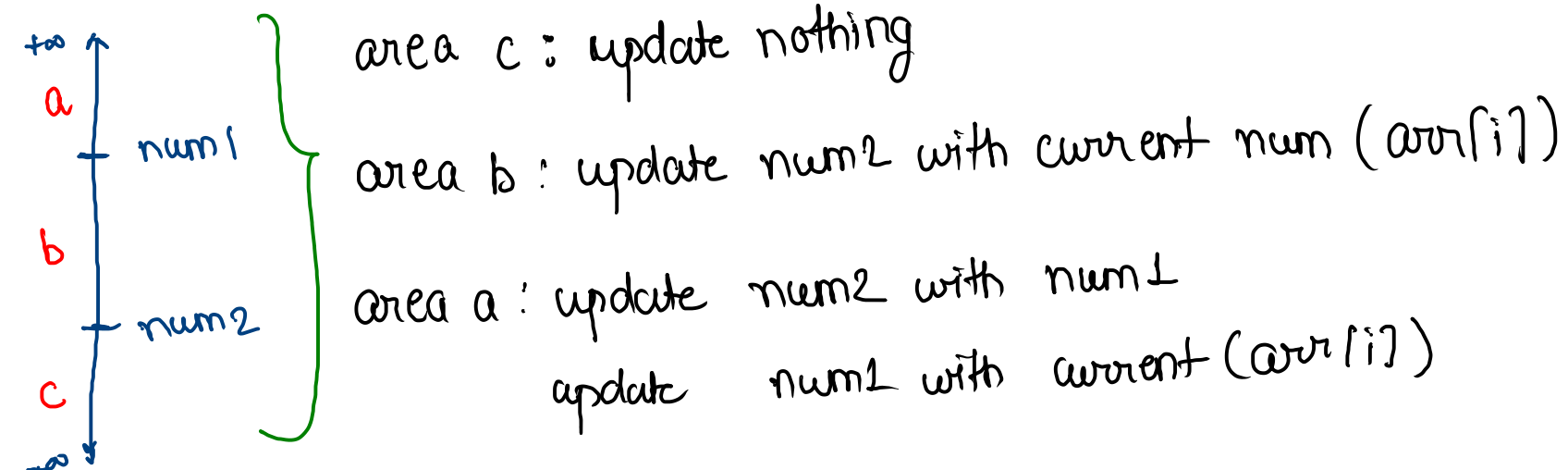
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
arr	5	1	0	2	3	7	6	4	8	9	11	10	15	12	20

arr[i] = ~~5~~ ~~1~~ ~~0~~ ~~2~~ ~~3~~ ~~7~~ ~~6~~ ~~4~~ ~~8~~ ~~9~~ ~~11~~ ~~10~~ ~~15~~ ~~12~~ 20

num1 = ~~∞~~ ~~5~~ ~~7~~ ~~8~~ ~~9~~ ~~11~~ ~~15~~ 20

num2 = ~~∞~~ ~~∞~~ ~~1~~ ~~2~~ ~~3~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~ ~~11~~ ~~12~~ 15

logic:-



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();
    }

    secondLargest(arr, n);
}

public static void secondLargest(int[] arr, int n) {
    int num1 = Integer.MIN_VALUE; // largest number
    int num2 = Integer.MIN_VALUE; // second largest

    for (int i = 0; i < n; i++) {
        if (arr[i] > num1) { // a
            num2 = num1;
            num1 = arr[i];
        } else if (arr[i] > num2) { // b
            num2 = arr[i];
        }
    }

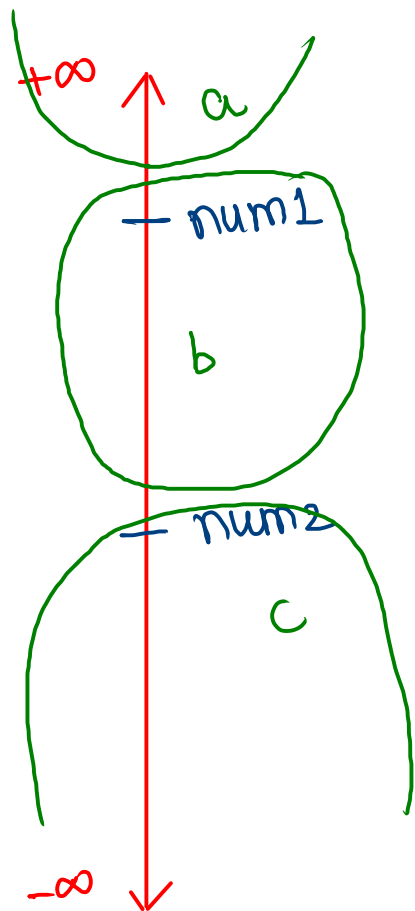
    System.out.println(num2);
}
```

n= 4  
 90 8 90 5

(arr[i] != num1)

num1 = ~~-∞~~ 90

num2 = ~~-∞~~ ~~-∞~~ (8)



```
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();
    }
    secondLargest(arr, n);
}
```

```
public static void secondLargest(int[] arr, int n) {
    int num1 = Integer.MIN_VALUE; // largest number
    int num2 = Integer.MIN_VALUE; // second largest
    for (int i = 0; i < n; i++) {
        a → if ( arr[i] > num1 ) { // a
            num2 = num1;
            num1 = arr[i];
        }
        b → else if ( (arr[i] > num2) && (arr[i] != num1) ) { // b
            num2 = arr[i];
        }
    }
    System.out.println(num2);
}
```

# Check Characterstic

```
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();
    }

    for (int i = 0; i < n; i++) {
        if ( arr[i] > 0 ) {
            arr[i] = 1;
        } else if ( arr[i] < 0 ) {
            arr[i] = -1;
        } else if ( arr[i] == 0 ) {
            arr[i] = 0;
        }
    }

    for (int i = 0; i < n; i++) {
        System.out.print(arr[i] + " ");
    }
}
```