

ow) Display Array in Reverse 33,110,7,53 Expectation: Sample Input dispar Reverse (wor, 0); Sample Output faith: display Arr Reverse (won, 1) meeting Expectation for faith

display Avy Reverse (avor, idx -1); Syso (n) ; \$1,2,3,4,53 lic static void displayArrReverse(int[] arr, int idx)
if(idx == arr.length){ Work 125 1 > 2 5 4 ID2 543 0207-2 1 D 2 5 4 3 Z

ario

1 D2 54321

displayArrReverse(arr,idx+1); System.out.println(arr[idx]); Maximum in An Array

20, -30, 50, 10, 0,60, 40}

1 Exputation;

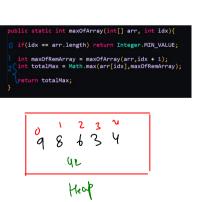
Put max Offray (int [] over, intidx) max of Array (avr, 0) -> 60

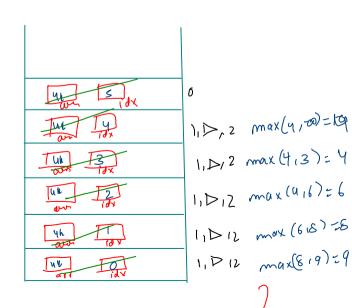
(2) faith: mox of Array (avr, idxt) muxy Array (wor, 1) -> 60

3 Meet Exputation with faith:

Company our max with max that we get from the remaining arriay.

rutur max (arvlidx), max(all)





first Index & Last Index target=10

first Index

1 Exputation: fi(avr,0) -> 2 2 20, 60, 10, 80, 50, 10 @ faith: fi(ovn, 1) -> 2

3 Meet Exputation with faith

if (our Fidx] == target) return idx else retwor filar, idx+1);

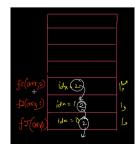
Last gnlex

O Exputation: li (aun, avor. length-1) (2) faith; li (aun, 1dx-1)

3 meet exper with foith;

if (wor Tidx) = = forget)

else return di (avorillx-1);



```
blic static int firstIndex(int[] arr, int idx, int x){
 if(idx == arr.length) return -1;
 if(arr[idx] == x) {
  return firstIndex(arr,idx + 1,x);
```

```
ic static int lastIndex(int[] arr, int idx, int x){
if(idx == -1) return idx;
if(arr[idx] == x) return idx;
return lastIndex(arr,idx-1,x);
```

dus) All Indius of Array target = 10 Expedition: all Indias Cour, target, ilx, count) \$ 2.5,6,83 faith: all Indias (wor, target, idx+1, count) from idx+1 to over length all India (wir, target, ida H, count 41) from idx+1 to over length + our own index element Meeting Expectation with faith:

```
public static int[] allIndices(int[] arr, int target, int idx, int count) {
    // write ur code here

    if(idx == arr.length) {
        int[] base = new int[count];
        return base;
    }

    if(arr[idx] == target) {
        int[] res = allIndices(arr,target,idx + 1,count + 1);
        res[count] = idx;
        return res;
    }

    int[] res = allIndices(arr,target,idx + 1,count);
    return res;
}
```

All India Dry Run

```
public static int[] allIndices(int[] arr, int target, int idx, int count) {
    // write ur code here

    if(idx == arr.length) {
        int[] base = new int[count];
        return base;
    }

    if(arr[idx] == target) {
        int[] res = allIndices(arr, target, idx + 1, count + 1);
        c res[count] = idx;
        return res;
    }

    int[] res = allIndices(arr, target, idx + 1, count);
    return res;
}
```

\$10,20,30,10, 20,10} target=10

	50,0,0°Z
on, 10, 6,3	1,2
m, 10,5,2	1,1,2 8010,59
w4710,4,2	1,280,0,53
av, 10,3,+	41D,2 \$0,3157
au, 10, 2, 1	1,5 2013153
over, 10-11-1	15D 250,3,53
au/10,0,0	11/2 8013153
	main()