Interview cods102 terusew MCT

1100 - student (01)

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2200 5 = 24 6

Priorites Quene Sen ws

Quene ____ Interbace Potonity evene -> CLOSS Heap data structure

SYSO (PD)

D MIN HELP @ max heap Rost Noda foot Node Linked List()

Haray Denve

Priority avene

Find out km Largest value $\begin{cases}
20, 10, 17, 18, 15
\end{cases}$ k = 3 $k = 17
\end{cases}$ (k-1) k = 42 (k-1) (k-

It is important to note that the elements of a priority queue may not be sorted. However, elements are always retrieved in sorted order.

6 274181 [27,411,811] x=2 [2 4 1 1] y-z=2 21127 2-1=1 51213 C_{2}

6 274181 1 97 16 (ソラメ) Pr. add (Y-x)

Break stone

```
7 public class Solution {
8
9
      public static void main(String[] args) {
           /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10
11
           Scanner sc = new Scanner(System.in);
12
           int n = sc.nextInt();
           ArrayList<Integer>arr = new ArrayList<>();
13
           for(int i=0;i<n;i++){
14
15
               arr.add(sc.nextInt());
16
17
           // System.out.println(arr);
           int ans = breakStone(arr);
18
           System.out.println(ans);
19
21
      public static int breakStone(ArrayList<Integer> arr){
22
           // System.out.println(arr);
23
           // while(arr.size()>1){
24
                 Collections.sort(arr);
25
                 int size = arr.size();
26
                 int temp = arr.get(size-1) - arr.get(size-2);
27
                 arr.remove(size-1);
28
           11
                 arr.remove(size-2);
29
                 if(temp!=0){
30
                      arr.add(temp);
31
                 1
32
           // }
33
34
           PriorityQueue<Integer> pq = new PriorityQueue<>(Collections.reverseOrder());
35
           for(int x: arr){
36
               pq.add(x);
37
           }
38
           int x=0;
39
           int y=0;
40
           while(pq.size()>1){
41
42
               y = pq.remove();
43
               x = pq.remove();
44
45
               if(y>x){
46
                  pq.add(y-x);
47
48
49
50
           return pq.size()==1?pq.poll():0;
51
```

In creasing

Decreasing