ÄrrayList with ij-else

 $\frac{\text{https://www.hackerrank.com/contests/fs-27-m2-java-dsa-class-challenges/challenges/arraylist-q1/copy-from/1386835591}$

```
public static void main(String[] args) {
5 🔻
           /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class show
7 *
3
           ArrayList<Integer> arr = new ArrayList<>();
9
           Scanner sc = new Scanner(System.in);
           int t = sc.nextInt();
0
           for(int i=0;i<t;i++){</pre>
1 v
               int n = sc.nextInt();
2
3
               int x=0;
4
               if(n==3||n==5){
5
                   x = sc.nextInt();
               }
7 -
               switch(n){
3
                   case 1 : System.out.println(arr.size());
9
                                break;
0
                   case 2: if(arr.size()<=0){</pre>
                        System.out.println("invalid-move");
1
2 *
                        }else{
3
                            System.out.println(arr.get(arr.size()-1));
4
                            arr.remove(arr.size()-1);
5
                        }
5
                        break;
7
               case 3 : System.out.println(x);
8
                       arr.add(x);
9
                       break;
) v
               case 4 : if(arr.size()<=0){</pre>
1
                        System.out.println("invalid-move");
2
                        }else{
3
                            System.out.println(arr.get(0));
4
                            arr.remove(0);
5
                        }
                       break;
5
7
               case 5 : System.out.println(x);
                        arr.add(0,x);
3
9
                        break;
```

```
40 🔻
                case 6 :if(arr.size()<=0){</pre>
                    System.out.println("invalid-move");
41
42 ▼
                         }else{
                             for(int j=0;j<arr.size();j++){</pre>
43 ▼
                                    System.out.print(arr.get(j)+" ");
44
45
                     System.out.println();
46
47
                             }
48
                    break;
49
50
                }
51
            }
52
53
        }
54 }
```

Printing elements in Arrayhist using for-each loop.

ArrayList <Integer) al=new ArrayList<>(), al-add(6), al. add(10); al. add (15);

al. add (4);

Jor-each loop: - This is being used for collection Syntax
Les Jor [Type variable name : name of collection]?

[6,10,15,4]

Example: for (int num: al) {

5.0.p/n(num); output:

Merge Two Sorted Arrays an=4 0 1 - (7) m=4 a~x2=[2,4,4,8] Output: -1,2,3,4,7,8 Array List (Integer) res = new Array List X(); int 1:0, 1:0; While (i<n xxj<m){ -1)== avr1[;]){ if (al. get (al. sizec) -1)! = arriti)) {
 al. add (arriti]);
}
i++; if [arr1[i] < arr2[j]) 1 j else if (arr2(j] (arr](i]){ if (al. get (al. size()-1)! = arrz[j]) {
 al. add (arrz[j]);
 3
 j++; if(algef(al.sizel)-1)!= arr1(ij){
 al.add(arr1(i));
} Zelse Z

9xx1=[10,15,16] n=3

arr2=[1], 18, 20, 25] While(i<34)

1. 10 KII i = 1, j=0 [10]

2.11/5

3. 15<18 [10,11,15] i=2,j=1

4. 16<18 al= [10,11,15,16] i=3,j=1

Using current code, my final arraylist will be [10,11,15,16] because loop will Stop now (i=3 which not <3)

Now, we have to add all remaining values present in array.

This will only happen when one array traversal is over but another array

is remaining. is juill tellus, which array has remaining Values.

while (itm) }

if (al. get(al. size()-1)! = arm[i]));

```
if (al. get(al. size()-1)! = arr(1));

al. add(arr(1));

while (j < m) {

if (al. get (al. size()-1)! = arr(2));

al. add (arr(2));

}

j++;

}
```