Ques Postfix Evaluation

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str= scn.nextLine();
    Stack<Integer> st = new Stack<>();
    for(int i=0;i<str.length();i++){
        char ch = str.charAt(i);
        if(ch >='0' && ch<='9'){
            st.push(ch-'0');
       }else{
            int a= st.pop();
            int b = st.pop();
            int val=0;
            if(ch=='+'){
                                               a=72 -6
b=35 5 #
val=-30
                val= a+b;
            }else if(ch=='-'){
                val =b-a; ∨
            }else if(ch=='*'){
                val = a*b;
            }else{
                val = b/a;
            st.push(val);
                                       -30
    System.out.println(st.peek());
```

## Example

$$\begin{aligned} h1 &= [1,2,1,1] \\ h2 &= [1,1,2] \\ h3 &= [1,1] \end{aligned}$$

$$an = [1, 2, 1, 4, 5]$$

```
public static int equalStacks(List<Integer> h1, List<Integer> h2, List<Integer> h3) {
   int sum1 = calculateSum(h1);
    int sum2 = calculateSum(h2);
                                                        Sum == Sum2 = sum3 (
Sum == Sum2 (+)
Sum2 == sum3)
    int sum3 = calculateSum(h3);
    while (!(sum1 == sum2 && sum2 == sum3)) {
        if (sum1 >= sum2 && sum1 >= sum3) {
            sum1 -= h1.remove(0);
        } else if (sum2 >= sum1 && sum2 >= sum3) {
            sum2 -= h2.remove(0);
        } else if (sum3 >= sum1 && sum3 >= sum2) {
            sum3 -= h3.remove(0);
    return sum1;
    static int calculateSum(List<Integer> stack) {
    int sum = 0;
    for (int height : stack) {
        sum += height;
    return sum;
```

```
34 Sam)
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<arr.length;i++){
       arr[i] = scn.nextInt();
   Stack<Integer> st = new Stack<>();
    for(int i=0;i<arr.length;i++){
       while(st.size()>0 && st.peek()<=arr[i]){
           st.pop();
       if(st.size()==0){
           System.out.print("-1"+" ");
       }else{
           System.out.print(st.peek()+" ");
       st.push(arr[i]);
```

anli]= stock pole of today. am2 [1, 1, 1, 2, 1, 4, 6 (# of day in which my stock point is 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(); Stack<Integer> st = new Stack<>(); for(int i=0;i<arr.length;i++){ while(st.size()>0 && arr[st.peek()]<=arr[i]){</pre> st.pop(); 6 if(st.size()==0){ System.out.print(1+i+" "); }else{ 35 System.out.print(i-st.peek()+" "); 1121461 st.push(i);