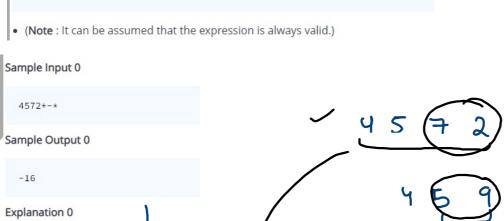
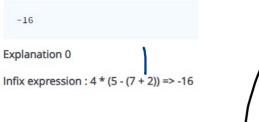
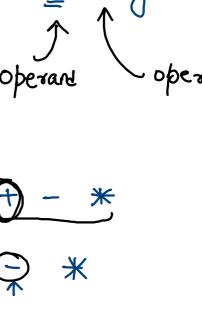
Postfix expression calculation

- Given a string Str in Postfix expression calculate the result of this expression.
- · String has 2 types of char.
 - case 1: char type1 = [0-9]
 - case 2: char type2 = [+, , / ,*]







```
1 vimport java.io.*;
 2 import java.util.*;
 3 *public class Solution {
 4 *
        public static void main(String[] args) {
 5
            Scanner scn = new Scanner(System.in);
 6
            String s = scn.next();
 7
            Stack<Integer> st = new Stack<>();
 8
            for(int i = 0; i <s.length(); i++){
 9
                char ch = s.charAt(i);
                if(ch >= '0' && ch <= '9'){
10 *
11
                    st.push(ch - '0');
12
13 🔻
                else{ //operator
14
                    int v2 = st.pop();
15
                    int v1 = st.pop();
16 •
                    if(ch == '+'){
17
                        st.push(v1+v2);
18 •
                    }else if(ch == '-'){
19
                        st.push(v1-v2);
                    }else if(ch == '*'){
20 *
21
                        st.push(v1*v2);
22 1
                    }else{
23
                        st.push(v1/v2);
24
25
26
27
            System.out.println(st.peek());
28
29 }
```

Next Smaller Element To The Right

Problem Submissions Leaderboard Discussions

- 1. You are given a number n, representing the size of array a.
- 2. You are given n numbers, representing elements of array a.
- 3. You are required to "next smaller element on the right" for all elements of array
- 4. Input and output is handled for you

"Next smaller element on the right" of an element x is defined as the first element to right of x having value smaller than x. Note -> If an element does not have any element on it's right side smaller than it, consider -1 as it's "next smaller element on right"

Sample Input 0

Sample Output 0

9 2 5 9 3 1 12 6 8 7

•

ſ

3

2

(

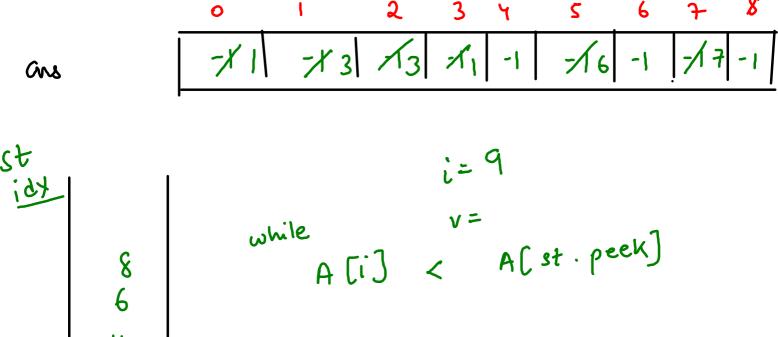
6

-

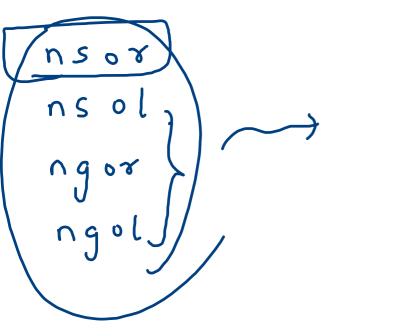
. 1

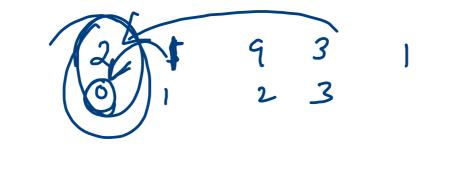
+ -

1 3 3 1 -1 6 -1 7 -1



9 3 1 12 6 8

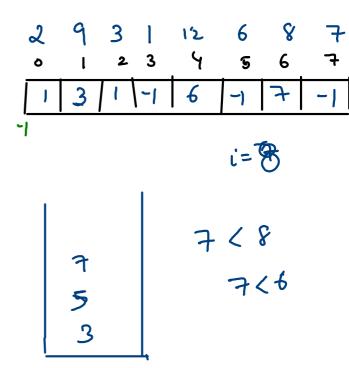




```
1 vimport java.io.*;
2 import java.util.*;
4 *public class Solution {
6 *
       public static void main(String[] args) {
7
            Scanner scn = new Scanner(System.in);
8
            int n = scn.nextInt();
9 +
           int [] A = new int[n];
10 v
           for(int i = 0; i < n; i++){
11 +
               A[i] = scn.nextInt();
12
13
           //logic
14 +
           int [] ans = new int[n];
15 *
           for(int i = 0; i < n; i++){
                ans[i] = -1;
16 *
17
                                       //instead write Arrays.fill(ans, -1);
18
            // Arrays.fill(ans, -1);
19
           Stack<Integer> st = new Stack<>();
           st.push(0);
21 1
           for(int i = 1; i < n; i++){
               while(st.size() != 0 && A[i] < A[st.peek()]){
22 *
23
                    int idx = st.pop();
                    ans[idx] = A[i];
24 *
25
               7
26
                st.push(i);
27
28 *
            for(int e : ans){
29
                System.out.print(e + " ");
30
31
```



32 }



Hashmap. initialize k,V add get remove check if k is present get or Default.

```
iaiii.java
 1 import java.util.HashMap;
    import java.util.*;
    public class Main
 4 - {
        public static void main(String[] args) {
            //init -- K, V
            HashMap<String , Integer> hm = new HashMap<>();
            //add -- put: 2 Type insert or update
             hm.put("Honda", 18);
             hm.put("Suzuki", 12);
11
             hm.put("BMW", 8);
12
             hm.put("Honda", 15);
13
14
             //size
             System.out.println(hm.size());
15
             //get
                   .out.println(hm.get("Honda"));
17
18
             //remove
             hm.remove("BMW");
19
            System.out.println(hm);
21
```

```
1 import java.util.HashMap;
 2 import java.util.*;
    public class Main
 4 - {
        public static void main(String[] args) {
            //init -- K, V
            HashMap<String , Integer> hm = new HashMap<>();
            //add -- put: 2 Type insert or update
            hm.put("Honda", 18);
            hm.put("Suzuki", 12);
11
            hm.put("BMW", 8);
12
13
            hm.put("Honda", 15);
15
            hm.remove("BMW");
            System.out.println(hm.getOrDefault("BMW", 0));
17
```