

ample Output 0

1305 m AS

-16

$$4 \times 5 + 7 + 2$$
 $4 \times (-4) = 7 - 16$

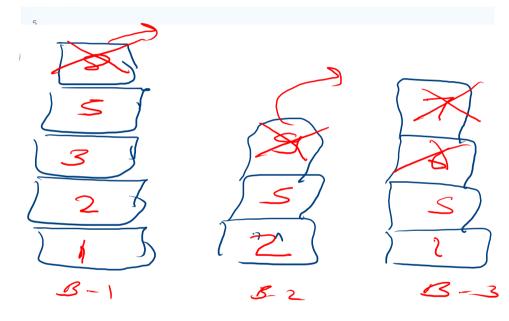
S2-48 4572 + - * Character (1's Digit) 53-48 = 50 2, 1 ر چی 52-48=0

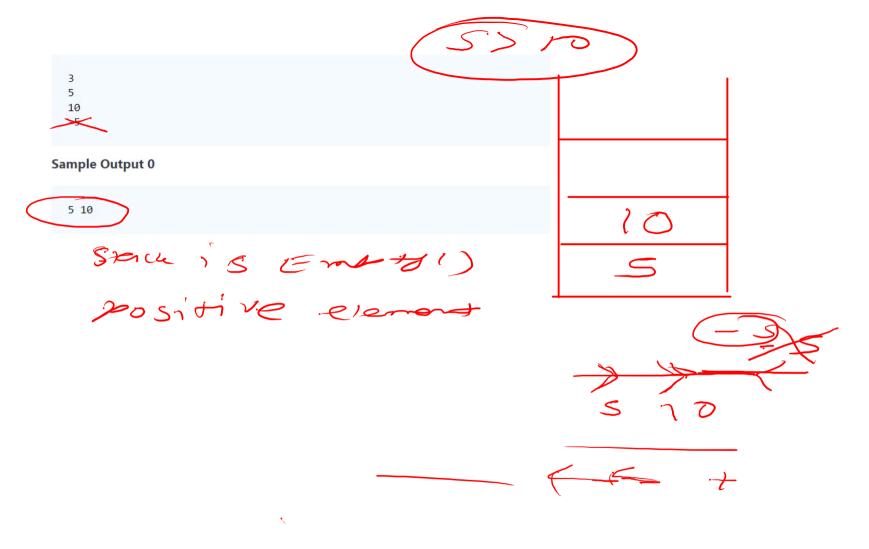
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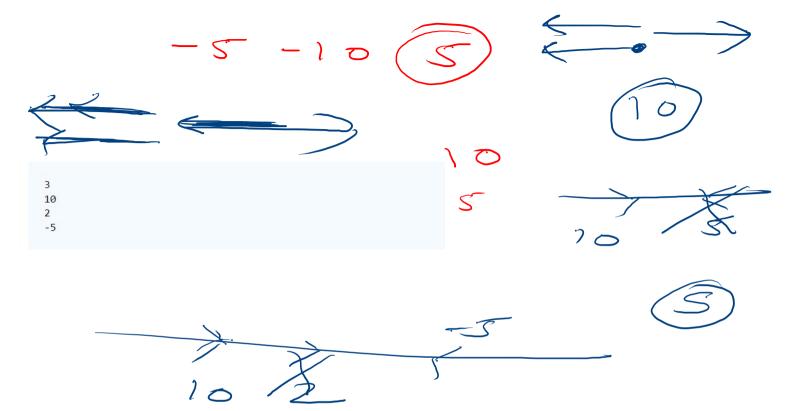
int val = - y (4572 + - * Character (1's Digit ison val = Y 10° = 48 vale y val Susocut popul

3+2+1+1+/=>8

Sample Output







[10,2,-5,-10,20,30,-40,40]

postfix expression

```
public class Solution {
    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
        Scanner sc = new Scanner(System.in);
        String str = sc.next();
        postfix(str);
    public static void postfix(String str){
       Stack<Integer> st = new Stack<>():
        for(int i=0;i<str.length();i++){</pre>
            char ch = str.charAt(i);
            // we are going to check if the particular charcter isDigit then only we are going to push in the stack
            if(Character.isDigit(ch)){
                //convert this in pure integer format
                int val = (int)(ch-48);
                st.push(val);
            }else{
                int val1 = st.pop();
                int val2=st.pop();
                if(ch=='+'){
                    st.push(val2+val1);
                }else if(ch=='-'){
                    st.push(val2-val1);
                }else if(ch=='*'){
                    st.push(val2*val1);
                }else if(ch=='/'){
                    st.push(val2/val1);
        System.out.println(st.pop());
```

Equal stack

```
public static int equalStacks(List<Integer> h1, List<Integer> h2, List<Integer> h3) {
    // Write your code here
        int maxHeigth=0:
        Stack<Integer> st1 = new Stack<>();
         Stack<Integer> st2 = new Stack<>();
         Stack<Integer> st3 = new Stack<>();
        fillstack(st1,h1,st2,h2,st3,h3);
       while(!stl.isEmpty() && !st2.isEmpty() && !st3.isEmpty())
           int stack1Height = st1.peek();
           int stack2Height = st2.peek();
           int stack3Height = st3.peek();
           // check all the heightts are same or not
           if(stack1Height==stack2Height && stack2Height==stack3Height){
               maxHeigth=stack1Height;
               break;
          }else{
               if(stack1Height>=stack2Height && stack1Height>=stack3Height){
                   stl.pop():
               }else if(stack2Height>=stack1Height && stack2Height>=stack3Height){
               }else if(stack3Height>=stack1Height && stack3Height>=stack2Height){
                   st3.pop();
        return maxHeigth;
    public static void fillstack(Stack<Integer> st1, List<Integer> h1,Stack<Integer> st2, List<Integer>
h2, Stack < Integer > st3, List < Integer > h3) {
        int stack1Height=0, stack2Height=0, stack3Height=0;
        for(int i=h1.size()-1;i>=0;i--){
            stack1Height+=h1.get(i);
            stl.push(stack1Height);
        // Building 2
        for(int i=h2.size()-1;i>=0;i--){
            stack2Height+=h2.get(i);
            st2.push(stack2Height);
        // Building 3
        for(int i=h3.size()-1;i>=0;i--){
            stack3Height+=h3.get(i);
            st3.push(stack3Height);
        // System.out.println(stl.peek());
        // System.out.println(st2.peek());
        // System.out.println(st3.peek());
```