Elite-S005-Stack

Solved Challenges **2/3**

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Remove Adjacent Equal Values

ID:11042 **Solved By 564 Users**

The program must accept an integer array of size **N** as the input. The program must remove the adjacent values in the array if they are equal. The program must repeat the process till there are no more equal adjacent values in the array. Finally, the program must print the integers in the array as the output. If there is no integer in the array, the program must print **-1** as the output.

Boundary Condition(s):
1 <= N <= 10^5

Input Format:
The first line contains N.
The second line contains N integers separated by a space.

Output Format:
The first line contains the integers in the modified array or -1.

Example Input/Output 1:
Input:
9
20 15 10 30 30 10 15 50 90

Output:
20 50 90

Example Input/Output 2:
Input:
6
10 20 30 30 20 10

Output:
-1

Max Execution Time Limit: 100 millisecs

Ambiance

C (gcc 8.x)

Reset

```
#include<stdio.h>
#include<stdlib.h>
int stack[100000];
int top=-1;

void push(int val)
{
    stack[++top] = val;
}

int pop()
{
    return stack[top--];
}

int isEmpty()
{
    return top==-1;
}

int peek()
{
    return stack[top];
}

int main()
{
    int N;
    scanf("%d",&N);
    int arr[N];
    for(int i=0;i<N;i++)
        scanf("%d",&arr[i]);

    for(int index=N-1;index>=0;index--)
    {
        if(isEmpty())
        {
            push(arr[index]);
        }
        else if(peek()==arr[index])
        {
            pop();
        }
        else
        {
            push(arr[index]);
        }
    }

    if(isEmpty())
        printf("-1");
```

```
52      else
53      {
54      while(!isEmpty())
55      {
56          printf("%d ",pop());
57      }
58      }
59  }
```

Code did not pass the execution

Raise Hand - Get Help From SkillRack Trainer

TestCase ID: 62952

Input:

```
6
10 20 30 30 20 10
```

Expected Output:

```
-1
```

Your Program Output:

Save Run

Run with a custom test case (Input/Output)