

Your Modify Stack Function submission got 10.00 points.
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Modifiy Stack Function

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Modify the **isFull and/or PUSH** functions of Question 1 to support the following functionality: If the stack is full when the PUSH function is called, allocate a new array B of size $2 \times n$, copy all the elements of A into B, make A point to the array B, deallocate the old array A, and finally perform the PUSH operation on the new array A.

Input Format

- The first line of the input contains an integer $n \in [0, 10^5]$, the size of the array A.
- Upcoming lines contain a character from 'i', 'd', or 't' followed by zero or one integer. The integer, if given, is in the range $[-10^6, 10^6]$.
- Character 'i' is followed by an integer separated by space. In this operation, the integer is inserted to the top of S.
- Character 'd' is to delete and print the most recently inserted element from S.
- Character 't' is to 'terminate' the program.

Output Format

- The output (if any) of each command should be printed on a separate line.
- For option 'i', if A is full, then print 1.
- For option 'd', print the deleted element. If A is empty, then print -1.

Sample Input 0

```
4
i 8
i 10
i 11
i 12
i 13
d
d
t
```

Sample Output 0

```
1
13
12
```



Contest ends in 2 hours

Submissions: [61](#)
Max Score: 10
Difficulty: Easy

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☆☆☆☆☆

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Current Buffer (saved locally, editable)  

C



```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
8     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ Test against custom input

Run Code Submit Code