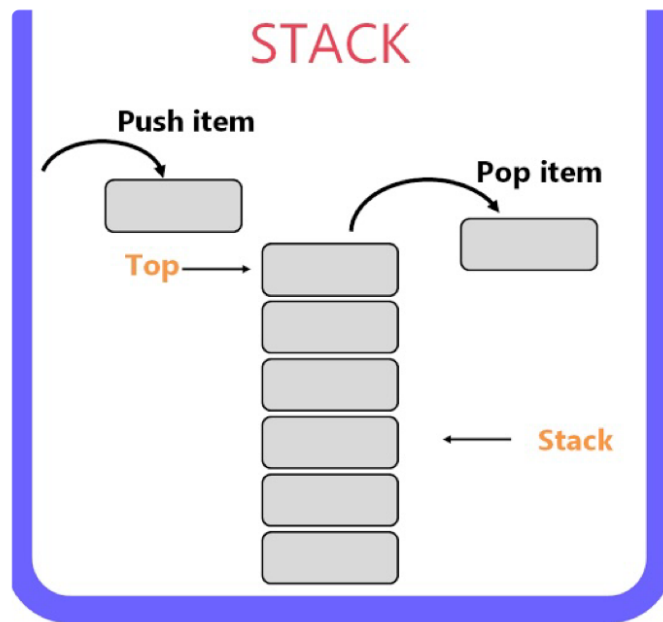


STACK...
video - 14



- Push
- POP
- Top



Easy

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Build An Array

With Stack Operations

Company:- Will soon update

1441. Build an Array With Stack Operations

Hint

Medium 337 113

Companies

You are given an integer array `target` and an integer `n`.

$n = 5$

You have an empty stack with the two following operations:

$\{1, 2, 3, 4, 5\}$

- "Push": pushes an integer to the top of the stack.
- "Pop": removes the integer on the top of the stack.

You also have a stream of the integers in the range `[1, n]`.

Use the two stack operations to make the numbers in the stack (from the bottom to the top) equal to `target`. You should follow the following rules:

- If the stream of the integers is not empty, pick the next integer from the stream and push it to the top of the stack.
- If the stack is not empty, pop the integer at the top of the stack.
- If, at any moment, the elements in the stack (from the bottom to the top) are equal to `target`, do not read new integers from the stream and do not do more operations on the stack.

Return the stack operations needed to build `target` following the mentioned rules. If there are multiple valid answers, return **any of them**.

$target = \{1, 3\}$

$Stream = \{1, 2, 3\}$

Example 1:

Input: `target = [1,3], n = 3`

Output: `["Push","Push","Pop","Push"]`

Explanation: Initially the stack `s` is empty. The last element is the top of the stack.

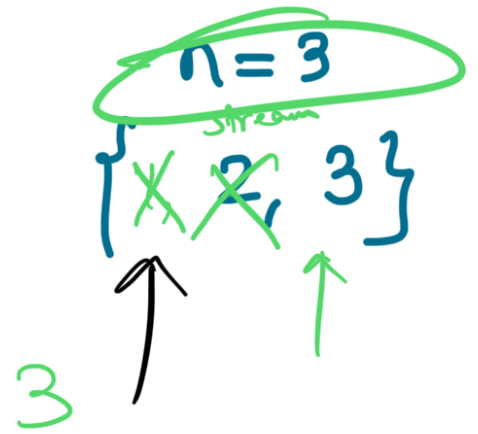
Read 1 from the stream and push it to the stack. `s = [1]`.

Read 2 from the stream and push it to the stack. `s = [1,2]`.

Pop the integer on the top of the stack. `s = [1]`.

Read 3 from the stream and push it to the stack. `s = [1,3]`.

$\{1, 3\}$



$\{ "Push", "Push", "Pop", "Push" \}$

$n = 3$

$\{1, 3\} \rightarrow 2$

$\cancel{1} \quad i$

Stream = $\cancel{1} \quad \cancel{2} \quad 3 \quad 4$

$i = 0$;

result = $\{ "Push",$

while ($i < \text{target.size()}$ && $\text{stream} \leq n$)

$\{ "Push", "Push", "Pop", "Push" \}$



result.push-back("Push");

if ($\text{stream} == \text{target}[i]$) {

$i++$;

} else {

result.push("Pop");

}

stream...

~~100%~~

3

the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million, from 2.5 million in 1980 to 4 million in 1995 (Department of Health 1996).

There is a growing emphasis on the need to improve the quality of care provided by the public sector. The Department of Health (1996) has set out a number of key objectives for the public sector, including the need to improve the quality of care, to reduce waiting times, and to improve the efficiency of the system.

One of the key challenges facing the public sector is the need to improve the quality of care. This is a complex task, as it involves a range of factors, including the quality of the staff, the quality of the facilities, and the quality of the care itself.

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