

5404. Build an Array With Stack Operations

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Given an array `target` and an integer `n`. In each iteration, you will read a number from `list = {1,2,3..., n}`.

Build the `target` array using the following operations:

- **Push:** Read a new element from the beginning `list`, and push it in the array.
- **Pop:** delete the last element of the array.
- If the target array is already built, stop reading more elements.

You are guaranteed that the target array is strictly increasing, only containing numbers between 1 to `n` inclusive.

Return the operations to build the target array.

You are guaranteed that the answer is unique.

User Accepted: 1162

User Tried: 1320

Total Accepted: 1164

Total Submissions: 1572

Difficulty: Easy

Example 1:

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

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

Explanation:

Read number 1 and automatically push in the array -> [1]

Read number 2 and automatically push in the array then Pop it -> [1]

Read number 3 and automatically push in the array -> [1,3]

Example 2:

Input: `target = [1,2,3], n = 3`

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

Example 3:

Input: `target = [1,2], n = 4`

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

Explanation: You only need to read the first 2 numbers and stop.

Example 4:

Input: `target = [2,3,4], n = 4`

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

Constraints:

- $1 \leq \text{target.length} \leq 100$
- $1 \leq \text{target}[i] \leq 100$
- $1 \leq n \leq 100$
- `target` is strictly increasing.

JavaScript



```
1 /**
2  * @param {number[]} target
3  * @param {number} n
4  * @return {string[]}
5  */
6 const buildArray = (target, n) => {
7     let res = [];
8     let data = [];
9     for (let t = 0; t < target.length; t++) {
10         for (let i = 1; i <= n; i++) {
11             if (target.includes(i) && data.length < target.length) {
12                 res.push("Push");
13                 data.push(i);
14             }
15             else if (!target.includes(i) && data.length < target.length) {
16                 res.push("Push");
17                 res.push("Pop");
18             }
19         }
20     }
21     return res;
22 };
```

☐ Custom Testcase

Use Example Testcases

Run

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