

Problem 3211: Generate Binary Strings Without Adjacent Zeros

Problem Information

Difficulty: Medium

Acceptance Rate: 87.89%

Paid Only: No

Tags: String, Backtracking, Bit Manipulation

Problem Description

You are given a positive integer `n`.

A binary string `x` is **valid** if all substrings of `x` of length 2 contain **at least** one `"1"`.

Return all **valid** strings with length `n`, in any order.

Example 1.

Input: `n = 3`

Output: `["010", "011", "101", "110", "111"]`

Explanation:

The valid strings of length 3 are: `"010"`, `"011"`, `"101"`, `"110"`, and `"111"`.

Example 2.

Input: `n = 1`

Output: `["0", "1"]`

Explanation:

The valid strings of length 1 are: `"0"` and `"1"`.

****Constraints:****

`* 1 <= n <= 18*`

Code Snippets

C++:

```
class Solution {  
public:  
    vector<string> validStrings(int n) {  
  
    }  
};
```

Java:

```
class Solution {  
    public List<String> validStrings(int n) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def validStrings(self, n: int) -> List[str]:
```