

Problem 717: 1-bit and 2-bit Characters

Problem Information

Difficulty: Easy

Acceptance Rate: 49.52%

Paid Only: No

Tags: Array

Problem Description

We have two special characters:

* The first character can be represented by one bit `0`.
* The second character can be represented by two bits (`10` or `11`).

Given a binary array `bits` that ends with `0`, return `true` if the last character must be a one-bit character.

Example 1:

Input: bits = [1,0,0] **Output:** true **Explanation:** The only way to decode it is two-bit character and one-bit character. So the last character is one-bit character.

Example 2:

Input: bits = [1,1,1,0] **Output:** false **Explanation:** The only way to decode it is two-bit character and two-bit character. So the last character is not one-bit character.

Constraints:

* `1 <= bits.length <= 1000` * `bits[i]` is either `0` or `1`.

Code Snippets

C++:

```
class Solution {  
public:  
    bool isOneBitCharacter(vector<int>& bits) {  
  
    }  
};
```

Java:

```
class Solution {  
public boolean isOneBitCharacter(int[] bits) {  
  
}  
}
```

Python3:

```
class Solution:  
    def isOneBitCharacter(self, bits: List[int]) -> bool:
```