2325. Number of Ways to Select Buildings

Difficulty : Medium

https://leetcode.com/problems/number-of-ways-to-select-buildings

You are given a **0-indexed** binary string `s` which represents the types of buildings along a street where:

- `s[i] = '0'` denotes that the i^{th} building is an office and
- `s[i] = '1'` denotes that the i^{th} building is a restaurant.

As a city official, you would like to **select** 3 buildings for random inspection. However, to ensure variety, **no two consecutive** buildings out of the **selected** buildings can be of the same type.

- For example, given `s = "0**0**1**1**0**1**"`, we cannot select the 1^{st}, 3^{rd}, and 5^{th} buildings as that would form `"0**11**"` which is **not** allowed due to having two consecutive buildings of the same type.

Return *the **number of valid ways** to select 3 buildings.*

Example 1:

```
Input: s = "001101"
Output: 6
Explanation:
The following sets of indices selected are valid:
- [0,2,4] from "0**0**1**1**0**1**" forms "010"
- [0,3,4] from "0**0**1**10**1" forms "010"
- [1,2,4] from "0**01**1**0**1" forms "010"
- [1,3,4] from "0**0**1**10**1" forms "010"
- [2,4,5] from "00**1**1**01**" forms "101"
- [3,4,5] from "001**101**" forms "101"
No other selection is valid. Thus, there are 6 total ways.
```

Example 2:

```
Input: s = "11100"
Output: 0
Explanation: It can be shown that there are no valid selections.
```

Constraints:

- `3 <= s.length <= 10^5`
- `s[i]` is either `'0'` or `'1'`.