

## Q2. Special Subsequences "AG" </>

✓ Solved



### Problem Description

You have given a string **A** having **Uppercase English letters**.

You have to find how many times subsequence **"AG"** is there in the given string.

**NOTE:** Return the answer modulo  $10^9 + 7$  as the answer can be very large.

### Problem Constraints

$1 \leq \text{length}(A) \leq 10^5$

### Example Input

Input 1:

A = "ABCGAG"

Input 2:

A = "GAB"

### Example Output

Output 1:

3

Output 2:

0

```
2
3  int Solution::solve(string A) {
4      int n = A.size(), i = 0, count = 0, ans = 0;
5
6      while(i<n) {
7          if(A[i] == 'A') count++;
8          if(A[i] == 'G') ans += count;
9          i++;
10     }
11     return ans;
12 }
13
```

# #100daysofDSA

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