A password is considered strong if the below conditions are all met:

* It has at least 6 characters and at most 20 characters.
* It contains at least **one lowercase** letter, at least **one uppercase** letter, and at least **one digit**.
* It does not contain three repeating characters in a row (i.e., "B**aaa**bb0" is weak, but "B**aa**b**a**0" is strong).

Given a string password, return *the minimum number of steps required to make password strong. if password is already strong, return 0.*

In one step, you can:

* Insert one character to password,
* Delete one character from password, or
* Replace one character of password with another character.

**Example 1:**

Input: password = "a"  
Output: 5

**Example 2:**

Input: password = "aA1"  
Output: 3

**Example 3:**

Input: password = "1337C0d3"  
Output: 0

**Constraints:**

* 1 <= password.length <= 50
* password consists of letters, digits, dot '.' or exclamation mark '!'.