Design- Week1

Week 1

▼ CP Question-

Question- Minimum String Length After Removing Substrings

You are given a string s consisting only of uppercase English letters.

You can apply some operations to this string where, in one operation, you can remove any occurrence of one of the substrings "AB" or "CD" from s.

Return the minimum possible length of the resulting string that you can obtain.

Note: The string concatenates after removing the substring and could produce new "AB" or "CD" substrings.

Example 1:

Input: s = "ABFCACDB"

Output: 2

Explanation:

- Remove the substring "AB", so s = "FCACDB".
- Remove the substring "CD", so s = "FCAB".

- Remove the substring "AB", so s = "FC".

So the resulting length of the string is 2.

It can be shown that it is the minimum length that we can obtain.

Example 2:

Input: s = "ACBBD"

Output: 5

Explanation:

We cannot do any operations on the string so the length remains the same.

▼ Coding Challenge-

- Calculate the sum of the digits of a given number.
- Determine if a given year is a leap year.
- Convert temperatures between Celsius and Fahrenheit.