→ How to Approach ?

For any given string, In order to make it palindrome Attach the reverse of the string.

Eg: string = "abcd"

To make it palindrome, attach the reverse string "dcba"

i.e abcd | dcba = abcddcba

Now, this gives us a clue that, if we add a reverse string We get palindrome, no matter what the string is.

→ So for abcd, the no of operations to make is palindrome is 4 ie dcba

⇒ Now to get the Minimum No of operations, what we can do is, We can see if palindrome btn the pairs exists. If they do, we dont need to reverse them.

Eg: abbc to make it palindrome we can add cbba

= abbccbba = 4 operations.

but bb ahead is a pair, so if we remove bb, In just 2 operations we can make a string palindrom by adding "ac"

One way = abbc → aabbcc (add here) = 2 operations

or = abbc → acbbca = 2 operations

or = abbc → cabbac = 2 operations

& so on, but with 2 operations, we can make a string palindrome