1578 :- Minimum time to make rope colorful

string = "a a b a a"

where each character represent a color (ballon)

time = "1 2 3 4 1" (Time required to remove ballon of each position.

→ Remove ballon in such a way that no ballons of same color are adjacent to each other. (In minimum time.)

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ballons = "abaabccccccaa"

After removing the ballons = "ababca"

~~Only~~ No same color ballon in adjacent position.

a b [a a] b [c c c c c c] [a a]

only one 'a' will remain

we have to remove every 'c' except the one which takes the most time to remove.

Algorithm

→ Sum the total time needed whenever adjacent elements are equal.

→ Subtract the ballon with maximum time from the total time.

→ Do it for all such occurences (In above example, 3 occurences)

→ Get the total time from all such occurences.