424 - Longest Repeating Character Replacement

s = "AABBB", k=2

A   A   B   B   B   k=2
L

                    R   longest = ~~1~~ ~~2~~ ~~3~~ ~~4~~ 5

                           most freq = ~~A~~ B

                           A: ~~1~~ 2
                           B: ~~1~~ ~~2~~ 3

s = "CDABAE", k=2

C   D   A   B   A   E   k=2
        L

                    R   longest = ~~1~~ ~~2~~ ~~3~~ 4

                           most freq = ~~C~~ ~~D~~ ~~A~~ ~~B~~ A

                           C: ~~1~~ 0
                           D: ~~1~~ 0
                           A: ~~1~~ 2
                           B: 1
                           E: 1

Track frequencies of characters in the substring to determine the max. occurring character i.e. the one we don't replace.

#replacements = length of substring − # occurrences of max. occurring character
↳ must be ≤ k for a valid window