[a a b c c b b]   k = 2
  0 1 2 3 4 5 6

seen = { }   max length = 0   max Repeated Letter Count
left = 0   right = 0   = 0   (mRLC)

right = 0   [a a b c c b b]

seen = { a : 1 }

mRLC = 2

max length = 1

right = 1   [a a b c c b b]

seen = { a : 2 }

mRLC = 2

max length = 2

right = 2   [a a b c c b b]

seen = { a : 2, b : 1 }

mRLC = 2

max length = 3

right = 3   [a a b c c b b]

seen = {a:2, b:1, c:1}

mRLC = 2

maxlength = 4

right = 4   [a a b c c b b]

seen = { a:2, b:1, c:2 }

mRL C = 2

will shrink (check formula on code)

seen = {a:1, b:1, c=2} [a a b c c b b]

left = 1

maxlength = 4

right = 5 left = 1   [a a b c c b b]

seen = {a:1, b:2, c:2}

mRL C = 2

will shrink

seen = { b:2, c:2 } [a a b c c b b]

left = 2

maxlength = 4

right = 6 left = 2   [a a b c c b b]

seen = { b:3, c:2 }

mR LC = 3

max length = 5

answer = (5) ← we have 2 (k) to use
↓
replace 2 (c) with (b)
to get max length of
same letters