

$[A, B, C, A, C]$   $k=2$

basket =  $\{\}$  max length = 0

left = 0 right = 0

right = 0

$[A B C A C]$

basket =  $\{A:1\}$

right = 1

$[A B C A C]$

basket =  $\{A:1, B:1\}$

right = 2

$[A B C A C]$

basket =  $\{A:1, B:1, C:1\}$

↓

$\{B:1, C:1\}$   $[A B C A C]$

left = 1

right = 3 left = 1

$[A B C A C]$

basket =  $\{B:1, C:1, A:1\}$

↓

$\{C:1, A:1\}$   $[A B C A C]$

left = 2

left = 2

right = 4 left = 2

[A B C A C]

basket = {C: 2, A: 1}

answer = right - left + 1  $\rightarrow$  3

