

Pdf

1. $[8] \rightarrow [8,2] \rightarrow [8] \rightarrow [16] \rightarrow [16,10] \rightarrow [16,5]$
2. $[4] \rightarrow [8] \rightarrow [8, 8] \rightarrow [8, 4] \rightarrow [8] \rightarrow []$
3. Go from left and right, do index a and index b for these two processes. Compare the elements to the element we want x - given by user. If from front then a if back then n-b where n is the size of the array. – you said text so I described it?

Time and Space

1. $O(n)$ to iterate through string, $S(n)$ for countStack and stringStack
2. $O(n)$ to iterate through string, $S(n)$ for the stack holding the elements
3. $O(n)$ to iterate through each one, $S(n)$ to hold the operations