

Question statement (1):

Reverse all the words in a string of words and spaces / tabs while preserving the word order and spacing.

Example

"moo cow bark dog" -> "oom woc krab god"

// keep the str

24 + 24 +

Identify the problem

Question statement (1)

Leetcode # 557 "Reverse words In a String III"

-) Given a string of words & spaces/tabs

reverse the words in the string. keep the reversed words in order too

-) take a list of words and reverse them one @ a time

Define Goals

-) keep words in order

-) don't reverse the whole string as one

bc that would change the order of the words

Explore & Anticipate / Action by Duke's Approach

1 & 2 step are done in one swoop

1) "mom. cow bark dog"

oom woc krab god

"one more ~~set~~ word"

"end erom draw"

| t | o | p | | d | o | g | | m | a | n | |

look for first word

| t | o | p | |

| t | o | p |

take out spaces

reverse the word

| p | o | t |

add to a longer "result" string

| p | o | t | . . . *don't forget
spacing!!

the given string is now

| d | o | g | | m | a | n |

| d | o | g | | → | d | o | g |

take length → 3

while we're inside the original
string, add the 1st word to
the back

| d | o | g |

| o | g | d |

g d o

ex 2 Reverse the word

a explicit

^{ok} pop the first ^{letter} and push to stack

t
i
c
i
l
p
x
e

pop from stack into string

t i c i l p x e

3) Patterns

given string

need ArrayList to parse letters in string
into

need a stack

flow

1) push a space into stack

2) pop letter from ArrayList
push onto stack up until but before

first space

~~array list~~

3) pop letters from stack to a result
and append
string including the space element