Assignment

Question-1

Write a program to maintain text justification problem.

Sample Input
words = ["This", "is", "a", "text", "justification","problem","in","tutorial","horizon"]
length = 20;

Output:
This   is   a   text
justification
problem in tutorial
horizon

Maintain an index which tracks the numbers of words already justified

(1) Say Length = L number of characters in each line.
(2) Start taking words into a new line.
(3) Keep track of number of characters adding to the new line.
(4) Add a special character ('@') after each word (later will replace by space ' ')
(5) Stop adding word to new line if Either adding new word will exceed the characters count in line from given length L Or characters count = Length L.
(6) Calculate the number of spaces needs to add to make the characters count to length L.
(7) Evenly distribute the spaces between the selected words. If any spaces are left (in case even distribution is not possible), add it to between first 2 words.
(8) Replace '@' with spaces calculated in the step above.
(9) Make a recursive call for rest of the words (from step 2 to Step 8)
(10) See the code for better understanding.