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104. Word Wrap Problem
PROGRAM:-
def print_solution(p, n):
  k = 0
  if p[n] == 1:
    k = 1
  else:
    k = print solution(p, p[n] - 1) + 1
  print('Line number', k, ': from word no.', p[n], 'to', n)
  return k
def solve_word_wrap(words, max_width):
  n = len(words)
  extras = [[0] * (n + 1) for _ in range(n + 1)]
  lc = [[0] * (n + 1) for _ in range(n + 1)]
  c = [0] * (n + 1)
  p = [0] * (n + 1)
  for i in range(1, n + 1):
    extras[i][i] = max_width - len(words[i - 1])
    for j in range(i + 1, n + 1):
       extras[i][j] = extras[i][j-1] - len(words[j-1]) - 1
  for i in range(1, n + 1):
    for j in range(i, n + 1):
       if extras[i][j] < 0:
         lc[i][j] = float('inf')
       elif j == n and extras[i][j] >= 0:
         lc[i][j] = 0
         lc[i][j] = extras[i][j] ** 2
  c[0] = 0
  for j in range(1, n + 1):
    c[j] = float('inf')
    for i in range(1, j + 1):
       if c[i-1] != float('inf') and lc[i][j] != float('inf') and (c[i-1] + lc[i][j] < c[j]):
         c[j] = c[i - 1] + lc[i][j]
         p[j] = i
  print_solution(p, n)
# Example usage:
words = ["This", "is", "an", "example", "of", "text", "justification."]
max_width = 16
solve_word_wrap(words, max_width)
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OUTPUT:-

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Line number 1: from word no. 1 to 3
Line number 2: from word no. 4 to 6
Line number 3: from word no. 7 to 7

=== Code Execution Successful ===
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TIME COMPLEXITY:-O(n²)