104)Word Wrap Problem

CODE:

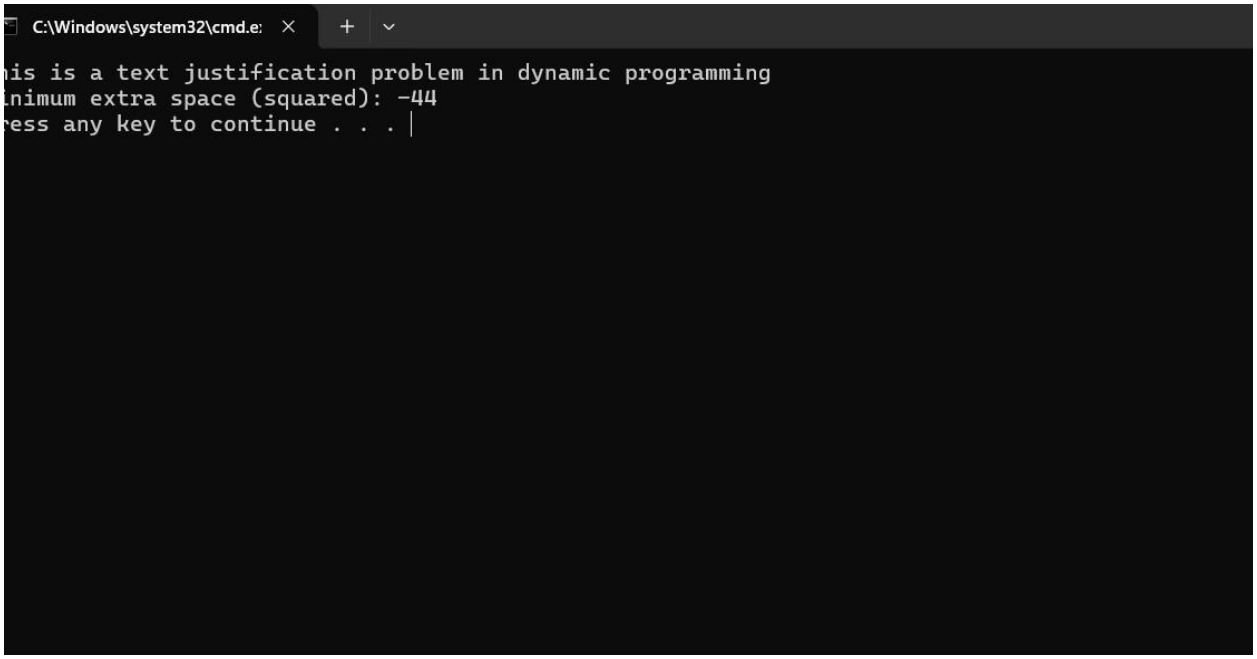
```
import sys  def
word_wrap(words, M):
   n = len(words)
   cost = [[0] * n for _ in range(n)]
       for i in range(n):         cost[i][i] = M - len(words[i])
for j in range(i + 1, n):             cost[i][j] = cost[i][j - 1] -
len(words[j]) - 1
        dp = [0] *
n     p = [0] * n
        for i in range(n - 1, -1, -1):
       dp[i] = sys.maxsize
for j in range(i, n):
          if cost[i][j] < sys.maxsize:
if j == n - 1:                    temp = 0
else:                    temp = dp[j + 1]
if dp[i] > cost[i][j] + temp:                    dp[i]
= cost[i][j] + temp                   p[i] = j + 1
        start = 0
while start < n:
end = p[start]
       print(' '.join(words[start:end]))
start = end

   return dp[0]

words = ["This", "is", "a", "text", "justification", "problem", "in", "dynamic",
```

"programming"
] M = 15
print("Minimum extra space (squared):", word_wrap(words, M))

OUTPUT:



TIME COMPLEXITY :