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122. NP-Complete and NP-Hard Problem
Code:
from itertools import permutations
def traveling salesman(graph):
  n = len(graph)
  min path = float('inf')
  for perm in permutations(range(1, n)):
    current pathweight = 0
    k = 0
    for j in perm:
      current pathweight += graph[k][j]
      k = i
    current pathweight += graph[k][0]
    min path = min(min path, current pathweight)
  return min path
graph = [
  [0, 10, 15, 20],
  [10, 0, 35, 25],
  [15, 35, 0, 30],
  [20, 25, 30, 0]
print(f"The minimum path weight is: {traveling salesman(graph)}")
output:
Time complexity:
F(n)=o(n*m)
```