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121. Class Problem: P and NP Problems
Code:
def is subset sum(nums, target_sum):
  def subset sum recursive(nums, n, target sum):
     if target sum == 0:
        return True
     if n == 0 and target sum != 0:
        return False
     if nums[n-1] > target sum:
        return subset sum recursive(nums, n-1, target sum)
     return subset sum recursive(nums, n-1, target sum) or
subset sum recursive(nums, n-1, target sum-nums[n-1])
  return subset sum recursive(nums, len(nums), target sum)
nums = [3, 34, 4, 12, 5, 2]
target sum = 9
print(is subset sum(nums, target sum))
target sum = 30
print(is subset sum(nums, target sum))
output:
 PS ::\Users\karth> & C:/Users/karth/AppData/Local/Programs/Python/Python312/python.exe c:/Users/karth/OneDrive/Documents/OriginLab/problem.py
PS C:\Users\karth>
Time complexity:
F(n)=o(2^n)
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