117. Subset Sum Problem

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AIM: To Solve the Subset sum problem by using backtracking
PROGRAM:
def subset_sum_backtracking(nums, target):
  """ Function to solve Subset Sum Problem using backtracking """
  subset = []
  result = []
  nums.sort()
  def backtrack(start, target):
    if target == 0:
      result.append(subset[:])
      return
    for i in range(start, len(nums)):
      if nums[i] > target:
        break
      subset.append(nums[i])
      backtrack(i + 1, target - nums[i])
      subset.pop()
  backtrack(0, target)
  return result
nums = [2, 3, 7, 8, 10]
target = 11
print(f"Subset sums that add up to {target}:")
print(subset_sum_backtracking(nums, target))
         Subset sums that add up to 11:
          [[3, 8]]
OUTPUT:
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TIME COMPLEXITY: 0(2N)