173. In a factory, there are two assembly lines, each with n stations. Each station performs a specific task and takes a certain amount of time to complete. The task must go through each station in order, and there is also a transfer time for switching from one line to another. Given the time taken at each station on both lines and the transfer time between the lines, the goal is to find the minimum time required to process a product from start to end.

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Program: def dice_sum_ways(num_sides, num_dice, target):
  dp = [[0] * (target + 1) for _ in range(num_dice + 1)]
  dp[0][0] = 1
  for i in range(1, num_dice + 1):
    for j in range(1, num_sides + 1):
      for k in range(j, target + 1):
        dp[i][k] += dp[i - 1][k - j]
  return dp[num_dice][target]
# Test Cases
# Case 1
num sides 1 = 6
num_dice_1 = 2
target_1 = 7
ways_1 = dice_sum_ways(num_sides_1, num_dice_1, target_1)
print(f"Number of ways to reach sum {target_1}: {ways_1}")
# Case 2
num_sides_2 = 4
num\_dice\_2 = 3
target_2 = 10
ways_2 = dice_sum_ways(num_sides_2, num_dice_2, target_2)
print(f"Number of ways to reach sum {target_2}: {ways_2}")
Output:
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Output

Number of ways to reach sum 7: 6 Number of ways to reach sum 10: 6

Timecomplexity: O(n)