Problem 4

Using bottoms up strategy to calculate the table

COUNT(x)

counts 🡨 an array of size n+1 to store number of ways for each integer up till x. With all values initialized to 0

counts [0] 🡨 1 This is going to be the base case

WHILE(p is not equal to n)

q = p

WHILE(q is not equal to n+1)

counts[q] 🡨 counts[q] + counts[q-p]

return 🡨 counts[n]