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]
```