```
In [13]: def greedy_coins_weight(coins, w):
    coins.sort()
    coins = coins[::-1]
    print(coins)
    length = len(coins)
    i = 0
    count = 0
    d = \{\}
    while w:
        if w>=coins[i]:
             w= w - coins[i]
             d[coins[i]]=d.get(coins[i],0)+1
             count+=1
         else:
             i+=1
    return d, count
denominations,count = greedy_coins_weight([1,5,10,25,50,100],42)
print(denominations, count)
denominations,count = greedy_coins_weight([1,5,10,25,50,100],1728)
print(denominations,count)
denominations,count = greedy_coins_weight([1, 8, 20, 30, 80, 200],42)
print(denominations, count)
denominations,count = greedy_coins_weight([1, 8, 20, 30, 80, 200],1728)
print(denominations,count)
[100, 50, 25, 10, 5, 1]
{25: 1, 10: 1, 5: 1, 1: 2} 5
[100, 50, 25, 10, 5, 1]
{100: 17, 25: 1, 1: 3} 21
[200, 80, 30, 20, 8, 1]
{30: 1, 8: 1, 1: 4} 6
[200, 80, 30, 20, 8, 1]
```

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In [ ]:
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{200: 8, 80: 1, 30: 1, 8: 2, 1: 2} 14