class Solution(object):

def coinChange(self, coins, amount):

"""

:type coins: List[int]

:type amount: int

:rtype: int

"""

dp = [0 for i in range(amount+1)]

coins.sort()

for i in range(1,amount+1):

j,compare=coins[0],float("inf")

if i>=j:

compare = dp[i-j]+1

for j in range(1,len(coins)):

if i>=coins[j]:

compare = min(compare,dp[i-coins[j]]+1)

dp[i] = compare

return dp[amount] if dp[amount]!=float("inf") else -1