背包问题：

def bag(a, b, c, d):  
 value = [[0 for j in range(b+ 1)] for i in range(a + 1)]  
 for i in range(1, a + 1):  
 for j in range(1, b + 1):  
 value[i][j] = value[i - 1][j]  
  
 if j >= c[i - 1] and value[i][j] < value[i - 1][j - c[i - 1]] + d[i - 1]:  
 value[i][j] = value[i - 1][j - c[i - 1]] + d[i - 1]  
 for x in value:  
 print(x)  
 return value  
  
def show(a, b, c, value):  
 print('最大价值为:', value[a][b])  
 x = [False for i in range(a)]  
 j = b  
 for i in range(a, 0, -1):  
 if value[i][j] > value[i - 1][j]:  
 x[i - 1] = True  
 j -= c[i - 1]  
 print('背包中所装物品为:')  
 for i in range(a):  
 if x[i]:  
 print('第', i+1, '个,', end='')  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 a = 6  
 b = 10  
 c = [2, 2, 3, 1, 5, 2]  
 d = [2, 3, 1, 5, 4, 3]  
 value = bag(a, b, c, d)  
 show(a, b, c, value)

