CS532 Homework 5 – Sanity Check

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Question 8

def knapsack1(W,V,w):

cost = [[0 for i in range(w+1)] for j in V]

for i in range(len(V)):

for j in range(w+1):

if i == 0:

if W[i] <= j:

cost[i][j] = V[i]

else:

cost[i][j] = 0

elif W[i] <= j:

cost[i][j] = max(cost[i-1][j],cost[i-1][j-W[i]]+V[i])

else:

cost[i][j] = cost[i-1][j]

return cost[i][j]