

----- knapsack2(k2) -----

----- V matrix -----

0	0	0	0	0	0
0	0	0	5	5	5
0	0	3	5	5	8
0	4	4	7	9	9

----- k matrix -----

0	0	0	0	0	0
0	0	0	1	1	1
0	0	1	0	0	1
0	1	1	1	1	1

i = 1 2 3

w = 3 2 1

v = 5 3 4

Max Value of 9 can obtained from items {3,1} that has values {4+5=9}

----- knapsack1(animal) -----

----- V matrix -----

0	0	0	0	0	0
0	0	12	12	12	12
0	10	12	22	22	22
0	10	12	22	30	32
0	10	15	25	30	37

----- k matrix -----

0	0	0	0	0	0
0	0	1	1	1	1
0	1	0	1	1	1
0	0	0	0	1	1
0	0	1	1	0	1

i = 1 2 3 4

w = 2 1 3 2

v = 12 10 20 15

Max Value of 37 can obtained from items {4,2,1} that has values {15+10+12=37}

----- knapsack3 -----

----- V matrix -----

0	0	0	0	0	0
0	0	3	3	3	3
0	0	3	4	4	7
0	0	3	4	5	7
0	0	3	4	5	7

----- k matrix -----

0	0	0	0	0	0
0	0	1	1	1	1
0	0	0	1	1	1
0	0	0	0	1	0
0	0	0	0	0	0

i = 1 2 3 4

w = 2 3 4 5

v = 3 4 5 6

Max Value of 7 can obtained from items {2,1} that has values {4+3=7}

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----- knapsack4(k1) -----
----- V matrix -----
  0  0  0  0  0  0  0  0  0  0  0
  0  0  0  0  0 10 10 10 10 10 10
  0  0  0  0 40 40 40 40 40 50 50
  0  0  0  0 40 40 40 40 40 50 70
  0  0  0 50 50 50 50 90 90 90 90
----- k matrix -----
  0  0  0  0  0  0  0  0  0  0  0
  0  0  0  0  0  1  1  1  1  1  1
  0  0  0  0  1  1  1  1  1  1  1
  0  0  0  0  0  0  0  0  0  0  1
  0  0  0  1  1  1  1  1  1  1  1
i =   1  2  3  4
w =   5  4  6  3
v =  10 40 30 50
Max Value of 90 can obtained from items {4,2} that has values
{50+40=90}
You are amazing. Bring me a bar of Chocolate
knapsackdp.cpp ends

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