

By applying the bottom-up dynamic programming algorithm for the given instances, then obtained result of knapsack problem is

		Capacity i							
		j	0	1	2	3	4	5	6
		0	0	0	0	0	0	0	0
$w_1 = 3$	$v_1 = 25$	1	0	0	0	25	25	25	25
$w_2 = 2$	$v_2 = 20$	2	0	0	20	25	25	45	45
$w_3 = 1$	$v_3 = 15$	3	0	15	20	35	40	45	60
$w_4 = 4$	$v_4 = 40$	4	0	15	20	35	40	55	60
$w_5 = 5$	$v_5 = 50$	5	0	15	20	35	40	55	65

The maximum value of feasible subset is $V[5, 6] = 65$. The optimal subset is item3 and item5.

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