Q2 B
A)

Item	weight	Value
1	3	12
2	4	40
3	5	25
4	7	42

0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0
0	0	0	12	12	12	12	$2	12	12	12
0	0	0	12	40	40	40	52	52	52	52
0	0	0	12	40	40	40	52	52	65	65
0	0	0	12	40	40	40	52	52	65	65

So the maximum value we get is by using
item 2 and 3 and profit is 65

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Q3 B)

A. The largest common subsequence problem is the problem of finding the largest subsequence common to all sequence in a set of sequence, provided that the element of the subsequence are not required to occupy commutative position within original sequence.

		O	a	e	d	f	h	r
O	0	0	0	0	0	0	0	
a	0	↖1	←1	←1	←1	←1	←1	
b	0	↑1	←1	←1	←1	←1	←1	
c	0	↑1	←1	←1	←1	←1	←1	
d	0	↑1	←1	↖2	←2	←2	←2	
h	0	↑1	←1	↑2	←2	↖3	←3	
e	0	↑1	←2	←2	←2	↖↑3	↑3	

The max length will be 3

    a   d   h

∴ LCS is adh with the length of 3.