HW8: Dynamic Programming

A. [60 pnts] Problems from the text book (15 points per question):

6.1,
6.4,
6.17,
6.19;

B. [40 pnts] Consider the "Weighted Interval Scheduling" problem discussed in the class with the following requests

R={ r1,r2,r3,r4,r5,r6} where

	Start time	Finish time	Value
r1:	(1	3	2)
r2:	(2	5	4)
r3:	(4	5	3)
r4:	(2	7	7)
r5:	(6	8	2)
r6:	(6	9	1)

1. [20 pnts] Implement an iterative DP Algorithm to find the subset of requests that has the total maximum value. (Hint: us an array M to store the values as described in the class)

2. [20 pnts] implement an algorithm and print the list of intervals in the optimal solution above by using the array M without maintaining another data structure.