CS4335 Tutorial 6 (dynamic programming

Q1: Given 8 jobs with the following (v, s, f)-values (v=value, s= start time, and f= finish times):

$$a=(3.5,0,6), b=(2,1,4), c=(3,3,5), d=(3,3,8), e=(6.5,4,7), f=(2.5,5,9), g=(12,6,10), h=(8,8,11).$$

Find a set of mutually compatible jobs with the maximal total value.

Sort by start time:

$$a(0, 6), b(1,4), c(3,5), d(3,8), e(4,7), f(5,9), g(6, 10), h(8, 11)$$

Sort by finish time:

$$p(h)=d$$
, $p(g)=a$, $p(f)=c$, $p(e)=b$, $p(d)=0$, $p(c)=0$, $p(b)=0$, $p(a)=0$

		ь	c	a	e	d	f	g	h
i	0	1	2	3	4	5	6	7	8
M	0	2	3	3.5	8.5	8.5	8.5	15.5	16.5
В	0	1	1	1	1	0	0	1	1

Backtracking:

h(8), e(6.5), b(2)