Homework 3, Part 2

Message	Ci	Ti	pi
m1	12	30	1
m2	6	40	2
m3	12	50	3
m4	21	100	4

For m1:

w1 = C1

w1 = 12

For m2:

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w2 = q2 + c2
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c2 = 6

q2(1) = c2 = 6

q2(2) = c2 + ceil (q2(1) / T1) * C1

q2(2) = 6 + ceil (6 / 30) * 12 = 18

q2(3) = 6 + ceil (18/30) * 12 = 18

w2 = 18

For m3:

$$w3 = q3 + C3$$

c3 = 12

q3(1) = c3 = 12

q3(2) = c3 + ceil (q3(1) / T1) * C1 + ceil (q3(1) / T2) * C2

q3(2) = 12 + ceil (12/30) * 12 + ceil (12/40) * 6 = 30

q3(3) = 12 + ceil (30/30) * 12 + ceil (30/40) * 6 = 30

w3 = 30

For m4:

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w4 = q4 + C4
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c4 = 21

q4(1) = C4 = 21

q4(2) = C4 + ceil (q4(1) / T1) * C1 + ceil (q4(1) / T2) * C2 + ceil (q4(1) / T2) * C3

q4(2) = 21 + ceil (21/30) * 12 + ceil (21/40) * 6 + ceil (21/50) * 12 = 51

q4(3) = 21 + ceil (51/30) * 12 + ceil (51/40) * 6 + ceil (51/50) * 12 = 81

q4(4) = 21 + ceil (81/30) * 12 + ceil (81/40) * 6 + ceil (81/50) * 12 = 99

q4(5) = 21 + ceil (99/30) * 12 + ceil (99/40) * 6 + ceil (99/50) * 12 = 111

q4(6) = 21 + ceil (111/30) * 12 + ceil (111/40) * 6 + ceil (111/50) * 12 = 123

q4(7) = 21 + ceil (123/30) * 12 + ceil (123/40) * 6 + ceil 123/50) * 12 = 141

q4(8) = 21 + ceil (141/30) * 12 + ceil 141/40) * 6 + ceil (141/50) * 12 = 141

w4 = 141