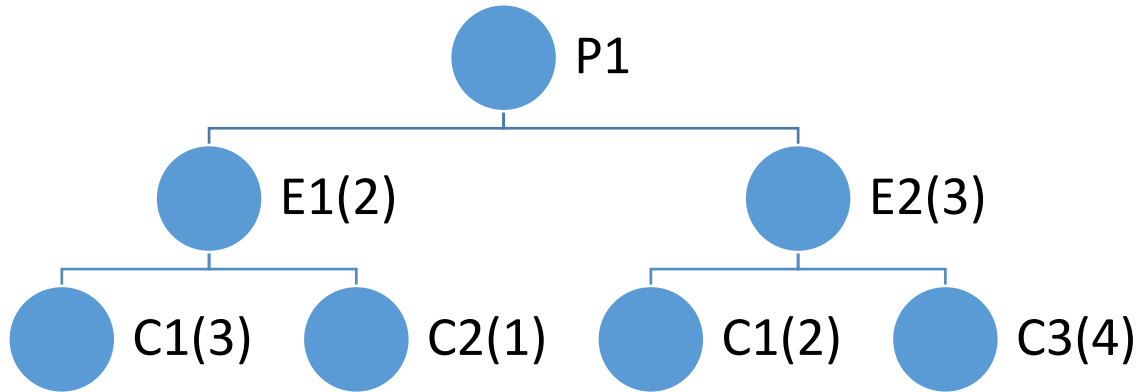


MRP Exercises

Consider P1 product with the hereafter bill of material



	P1	E1	E2	C1	C2	C3
Lead time	1	2	1	2	1	2
Achievement	assembling	assembling	assembling	purchase	manufacturing	Purchase
Starting inventory	20	10	15	100	50	1550
Lot size	80	200	50	1000	250	200

Question 1

1° We have to deliver P1 in week 10. If inventories are equal to zero considering all items, when have we to be supplied with C1 ?

2° To assemble 100 units of P1, how many units of C1 do we need?

Question 2

Please fill the hereafter table knowing that 100 units is the batch size and safety stock is 20% of the demand

	time	W1	W2	W3	W4	W5	W6
Sales forecasts	Dt	70	90	120	60	40	100
Safety stock	SSt	14	18				
inventory	SIt	110	40				
Net demand	DNt	0	68				
Expected delivery	LAt	0	100				

- 1° What is inventory value in week 6 ?
- 2° What is expected delivery in week 5 ?
- 3° What is net demand during week 6 ?