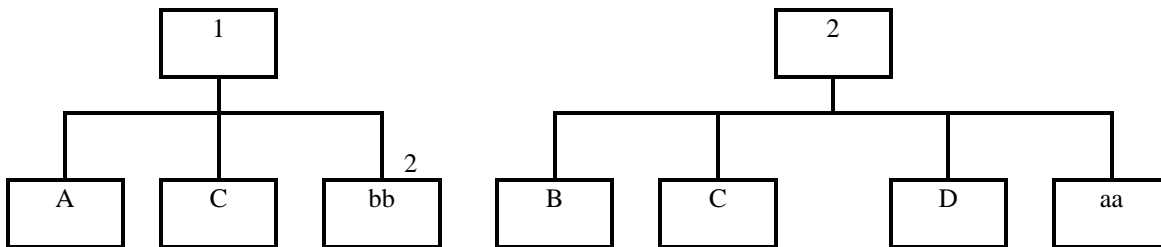


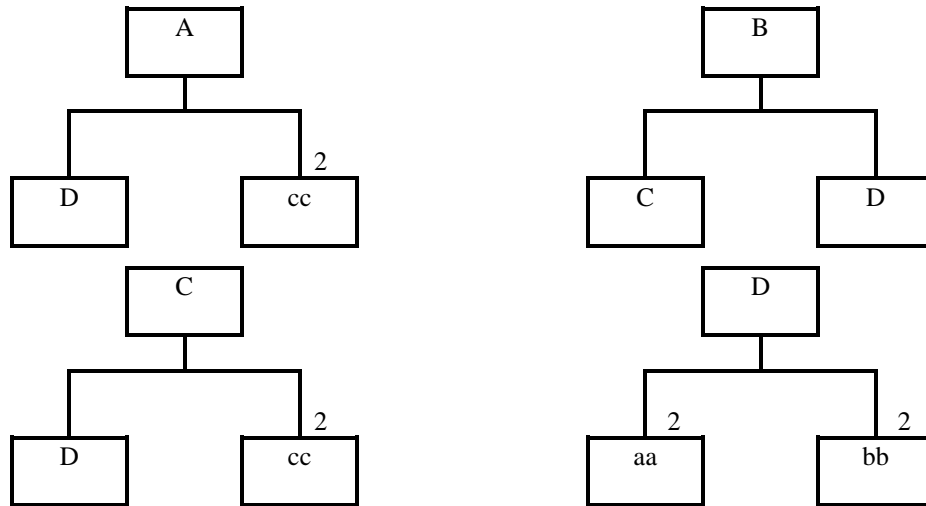
**Homework No. 4**  
**(Due: February 20, 2017)**

**Problem 1.** A company manufactures two products, which are broken down as follows:

**End Products:**



**Subassemblies:**



Draw the two product-structure trees using low-level coding.

**Problem 2.** Given the following data, develop the gross and net requirements report for a 6-week period using the tree structure in the previous problem. Assume set up cost to be \$100/order and the carrying cost to be \$0.50/unit/week.

Item	1	2	A	B	C	D	aa	bb	cc
Demand in week									
1	10	15							
2	15	20	40						
3	20	25							
4	30	30		20					
5	40	40					30		
6	50	50							10
On-hand Inventory	100	35	30	100	200	100	500	300	300
Lead Time	1	1	1	1	1	1	1	1	1
Lot sizing rule	EOQ	POQ	PPB	LFL	LFL	LFL	LFL	LFL	LFL