

We have three proposal

P1, P2, P3, p4

P1: Buying laptops

P2: Buying Desktops

P3: Getting Network

P4: Buying Software

Condition 1: P1 & P2 are mutually exclusive

Condition 2: P2 & P4 are codependent

Condition 3: P1 and P4 are co dependent

Condition 4: P3 depends on P4

No of proposal = k =4

No. of alternatives = $2^k = 2^4 = 16$

Alternatives	P1	P2	P3	P4	Possible alternatives	VALID/INVALID	REASON
A0	0	0	0	0	Do nothing	Valid	
A1	1	0	0	0	P1 only	invalid	C3
A2	0	1	0	0	P2 only	invalid	C2
A3	1	1	0	0	P1 and p2	invlaid	C1
A4	0	0	1	0	P3 only	invalid	C4
A5	1	0	1	0	P1 and p3	invlaid	C1, c4
A6	0	1	1	0	P2 and p3	Invalid	
A7	1	1	1	0	P1, p2 p3	Invalid	
A8	0	0	0	1	P4 only	Invalid	
A9	1	0	0	1	P1 and p4	Valid	
A10	0	1	0	1	P2 and p4	Valid	
A11	1	1	0	1	P1 p2 and p4	Invalid	
A12	0	0	1	1	P3 and p4	Invalid	
A13	1	0	1	1	P1 p3 p4	Valid	
A14	0	1	1	1	P2 p3 p4	Valid	
A15	1	1	1	1	P1, p2, p3 p4	Invalid	

Valid alternatives: A0, A9, A10, A13, A14