1)

| Variables	Domains	Binary Constrains
C_1	{A, C}	$C_1 \neq C_2$
C_2	{A}	$C_2 \neq C_3$
C_3	{B, C}	$C_2 \neq C_4$
C_4	{B, C}	$C_3 \neq C_4$
C_5	{A, B}	

2) Constrain Graph

3)

Backtracking

C_1	A
C_2	
C_3	
C_4	
C_5	

C_1	C
C_2	
C_3	
C_4	
C_5	

C_1	A
C_2	X
C_3	
C_4	
C_5	

C_1	C
C_2	A
C_3	
C_4	
C_5	

C_1	C
C_2	A
C_3	B
C_4	
C_5	

C_1	C
C_2	A
C_3	C
C_4	
C_5	

C_1	C
C_2	A
C_3	B
C_4	C
C_5	

C_1	C
C_2	A
C_3	C
C_4	B
C_5	

C_1	C
C_2	A
C_3	B
C_4	C
C_5	A

C_1	C
C_2	A
C_3	B
C_4	C
C_5	A

C_1	C
C_2	A
C_3	C
C_4	B
C_5	A

C_1	C
C_2	A
C_3	C
C_4	B
C_5	B
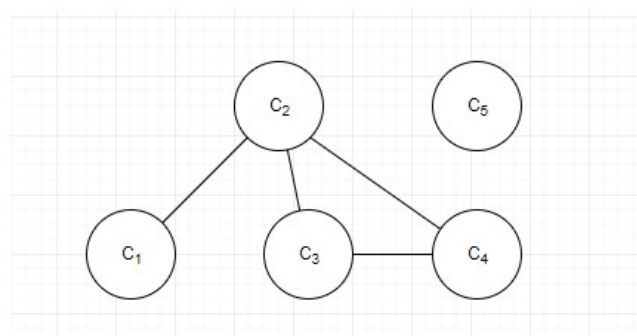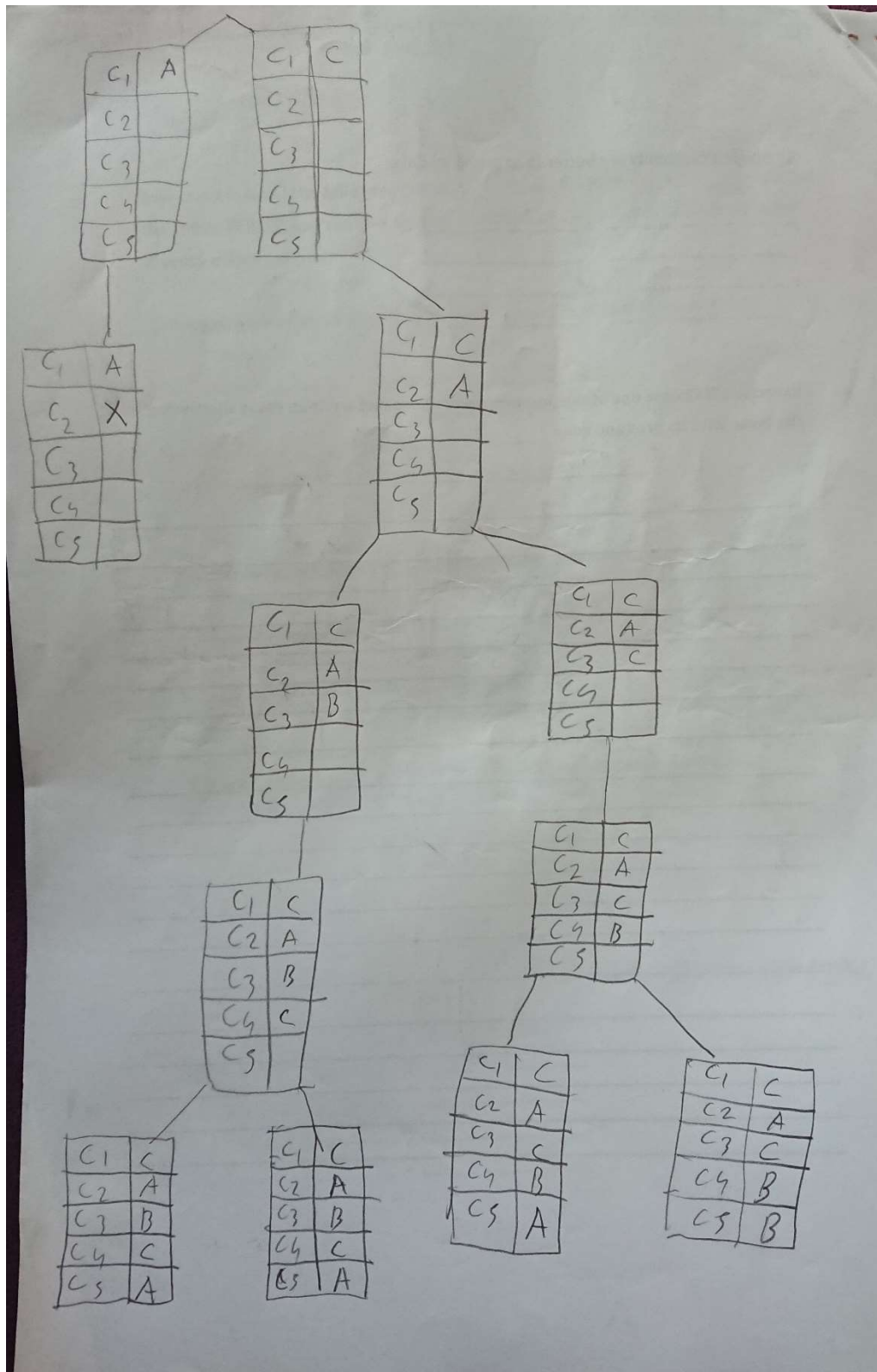
Minimum Remaining Value

C_1		C_1	C	C_1	C	C_1	C	C_1	C
C_2	A	C_2	A	C_2	A	C_2	A	C_2	A
C_3	→	C_3	→	C_3	B →	C_3	B →	C_3	B
C_4		C_4		C_4		C_4	C	C_4	C
C_5		C_5		C_5		C_5		C_5	A
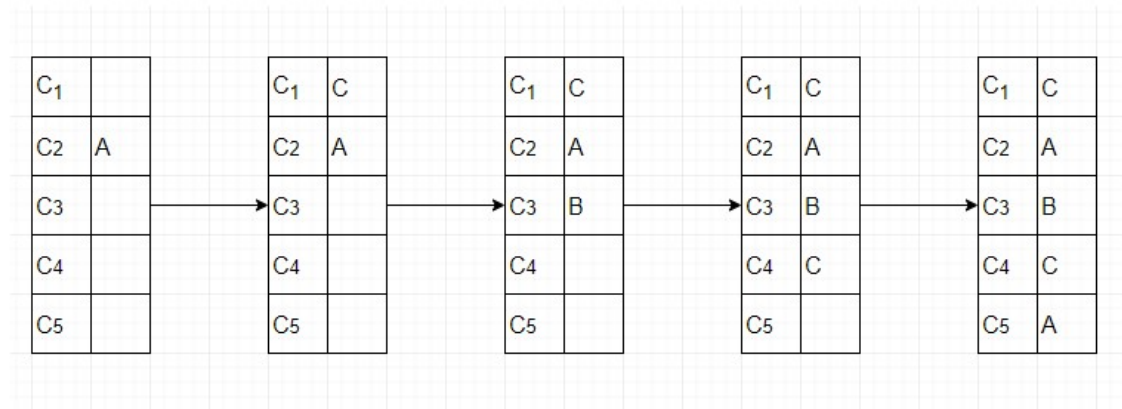
Least Constraining Value

C_1	C	C_1	C	C_1	C	C_1	C	C_1	C
C_2		C_2	A	C_2	A	C_2	A	C_2	A
C_3	→	C_3	→	C_3	B →	C_3	B →	C_3	B
C_4		C_4		C_4		C_4	C	C_4	C
C_5		C_5		C_5		C_5		C_5	A
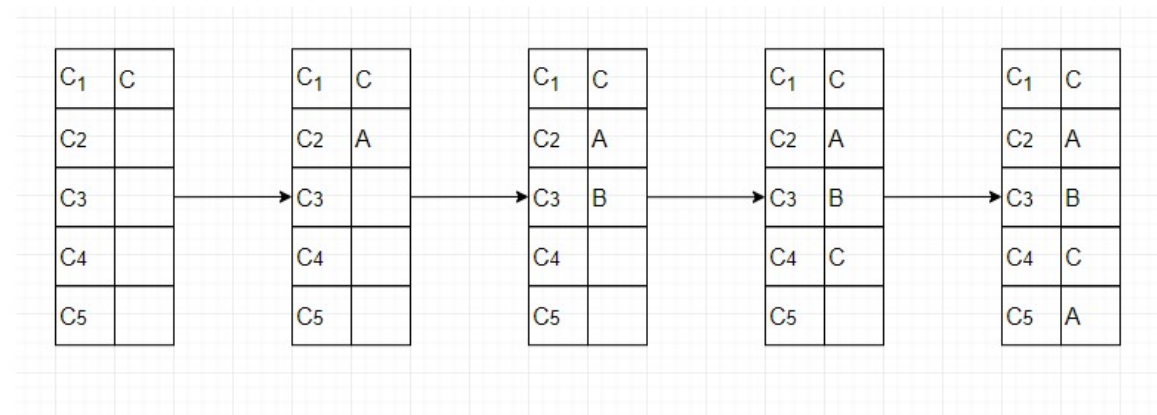
Forward Checking

c_1	c_2	c_3	c_4	c_5
{A−C}	{A}	{B−C}	{B−C}	{A−B}
{C}	A	{B−C}	{B−C}	{A−B}
C	A	{B−C}	{B−C}	{A−B}
C	A	B	{C}	{A−B}
C	A	B	C	{A−B}
C	A	B	C	A