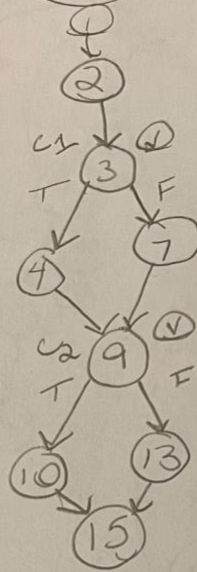


Elizabeth  
Dayton

# SQA Assignment #2

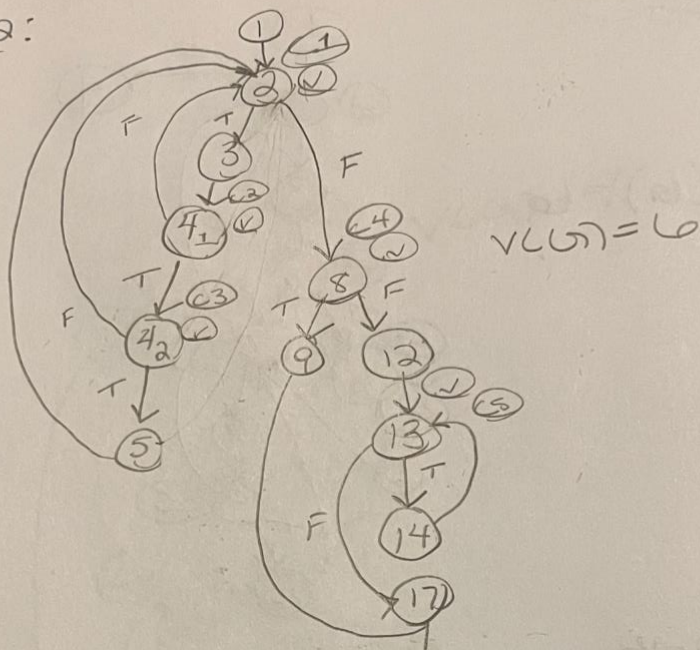
Problem 1:



$$V(G) = 3$$

Path #	Path	C1	C2
1	1-2-3-4-9-10-15	T	T
2	1-2-3-7-9-13-15	F	F
3	1-2-3-4-9-13-15	T	F

Problem 2:

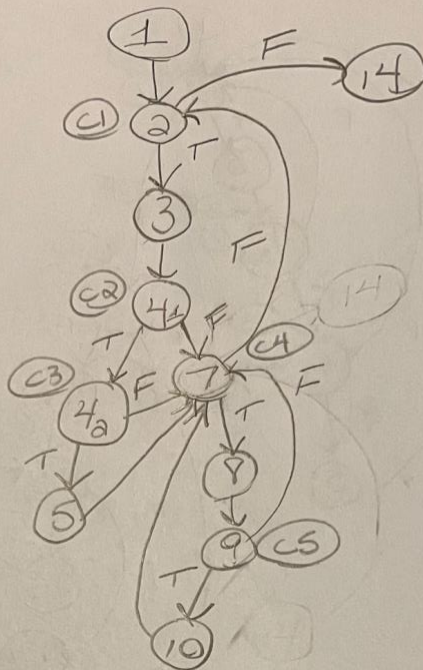


Path #	Path	C1	C2	C3	C4	C5
1	1-2-8-9-17	F	X	X	T	X
2	1-2-8-12-13-17	F	X	X	F	F
3	1-2-8-12-13-14-13-17	F	X	X	F	T/F
4	1-2-3-4 <sub>1</sub> -2-8-9-17	T/F	F	X	T	X
5	1-2-3-4 <sub>1</sub> -4 <sub>2</sub> -2-8-9-17	T/F	T	F	T	X
6	1-2-3-4 <sub>1</sub> -4 <sub>2</sub> -5-2-8-9-17	T	T	T	T	X



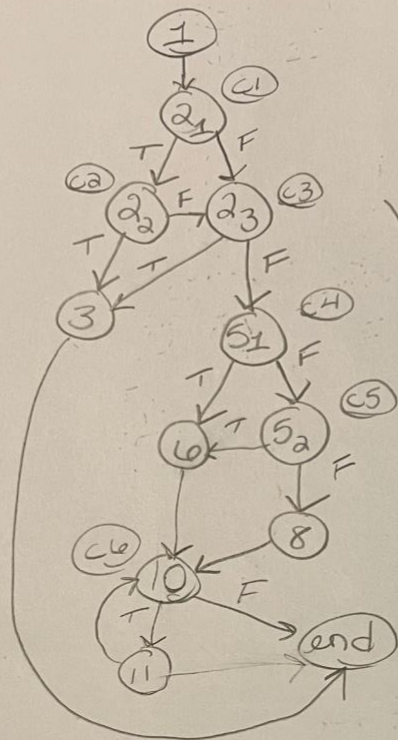
### Problem 3:

$$V(6) = 6$$



Path #	Path	C1	C2	C3	C4	C5
1	1-2-14	F	X	X	X	X
2	1-2-3-4 <sub>1</sub> -7-2-14	T/F	F	X	F	X
3	1-2-3-4 <sub>1</sub> -4 <sub>2</sub> -7-2-14	T/F	T	F	F	X
4	1-2-3-4 <sub>1</sub> -4 <sub>2</sub> -5-7-2-14	T/F	T	T	F	X
5	1-2-3-4 <sub>1</sub> -7-8-9-7-2-14	T/F	F	X	T/F	F
6	1-2-3-4 <sub>1</sub> -7-8-9-10-7-2-14	T/F	F	X	T/F	T

# Problem 4:



$$V(LG) = 7$$

Path#	Path	c1	c2	c3	c4	c5	c6
1	1 - 21 - 23 - 3 - end	F	X	T	X	X	X
2	1 - 21 - 22 - 3 - end	T	T	X	X	X	X
3	1 - 21 - 22 - 23 - 3 - end	T	F	T	X	X	X
4	1 - 21 - 23 - 51 - 6 - 10 - end	F	X	F	T	X	F
5	1 - 21 - 23 - 51 - 6 - 10 - 11 - 10 - end	F	X	F	T	X	T/F
6	1 - 21 - 23 - 51 - 52 - 6 - 10 - end	F	X	F	F	T	F
7	1 - 21 - 23 - 51 - 52 - 8 - 10 - end	F	X	F	F	F	F