Software Engineering - Assignment # 2

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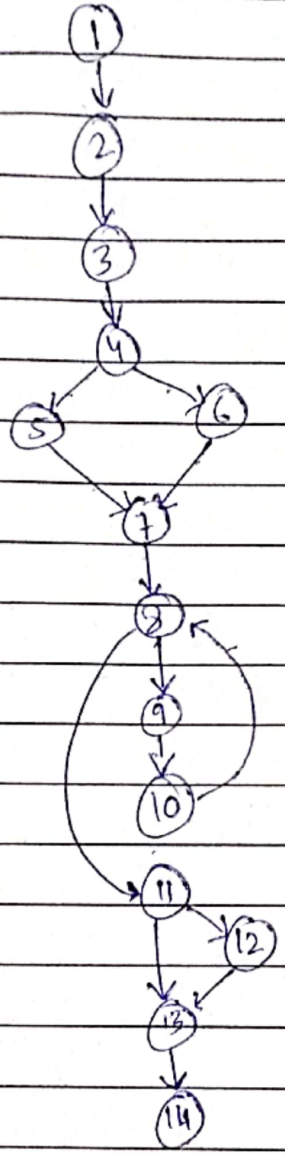
a)
b)

Cyclic Complexity:



→ Method # 1:

E - N + 2 = CC

CC : 16 - 14 + 2 = 4

CC = 4

→ Method # 2:

No. of regions + 1 = CC

No. of regions = 3

CC = 3 + 1

CC = 4

→ Method # 3:

Independent paths:

1) 1-2-3-4-6-7-8-11-13-14
2) 1-2-3-4-5-7-8-11-13-14
3) 1-2-3-4-5-7-8-9-10-2-11-13-14
4) 1-2-3-4-5-7-8-9-10-8-11-12-13-14

No. of independent paths = 4

CC = 4

c) X is not restricted so it can accept any value.
Y can be divided into 2 cases - positive and negative

Inputs	Condition 4	Condition 6	Condition 11	Output (z)
X=5, Y=3	F	T	F	12.5
X=5, Y=0	F	T	F	1
X=5, Y=-1	T	F	T	0.2