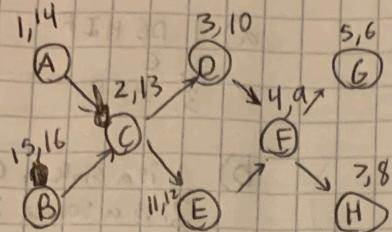


Sam Hopkins

Hw 7
3.3, 3.4

	pre	post
A	1	14
B	15	16
C	2	13
D	3	10
E	11	12
F	4	9
G	5	6
H	7	8

3.3) a)

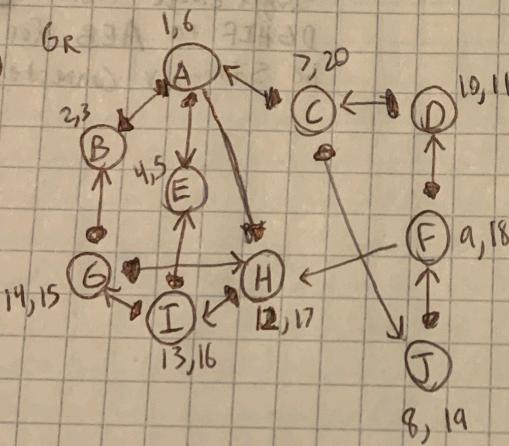


b) Sources are: A, B
Sinks are: G, H

c) B A C E D F H G

d) 8

3.4)i)

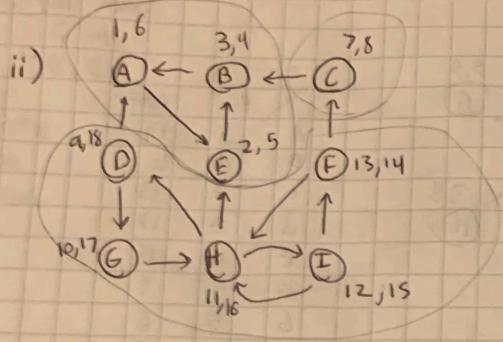


a) 1. C, J, F, H, I, G, D
2. A, E, B

b) in G, 1 is a sink, and 2 is a source,
in G_R it is reversed

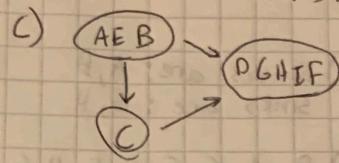
c)

d) Just by adding one edge we can make it connected



a) 1. DGHIF
2. C
3. AEB

b) 1. is a sink in G
3. is a source in G, GR is opposite
with 1 being a source
and 3 being a sink



d) you only need to add a
single edge from ~~to~~ the sink
DGHIF to AEB for it to
be Strongly Connected