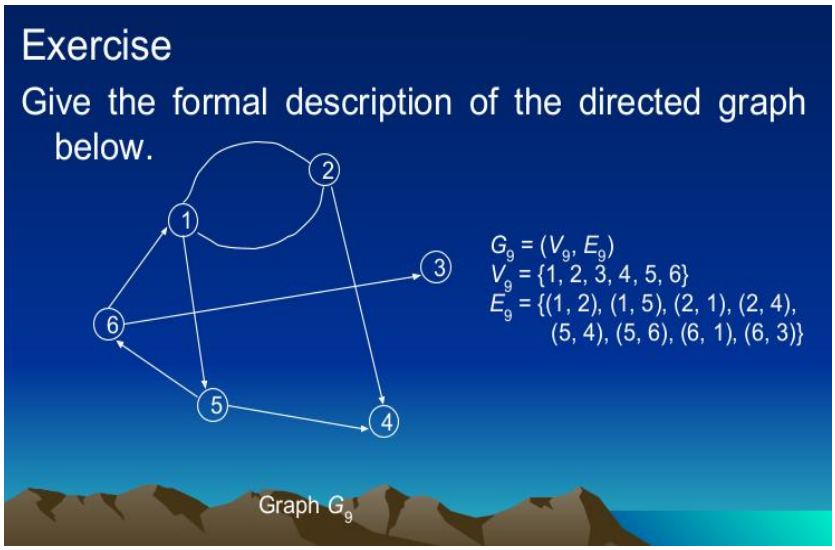
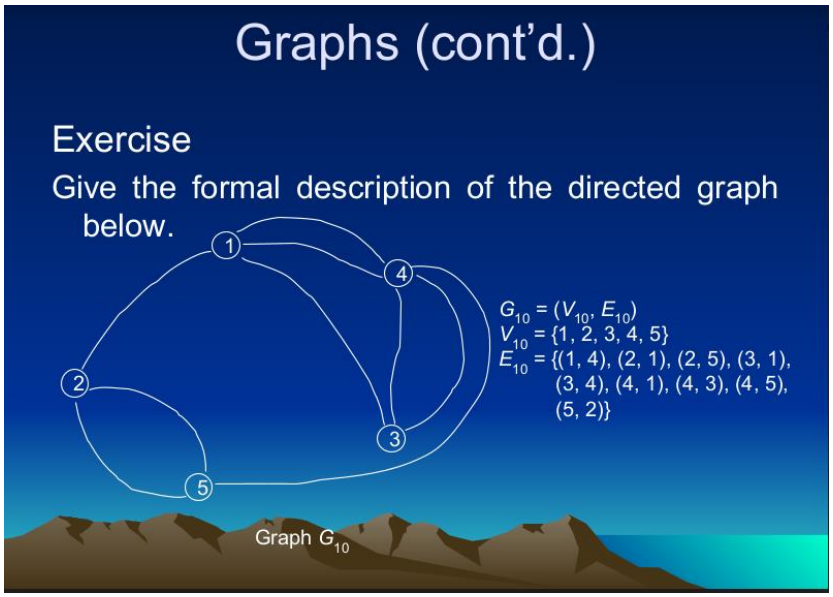
Ben Piolo G. Nicart January 11, 2023

BSCPE 2-1 CPEN 65

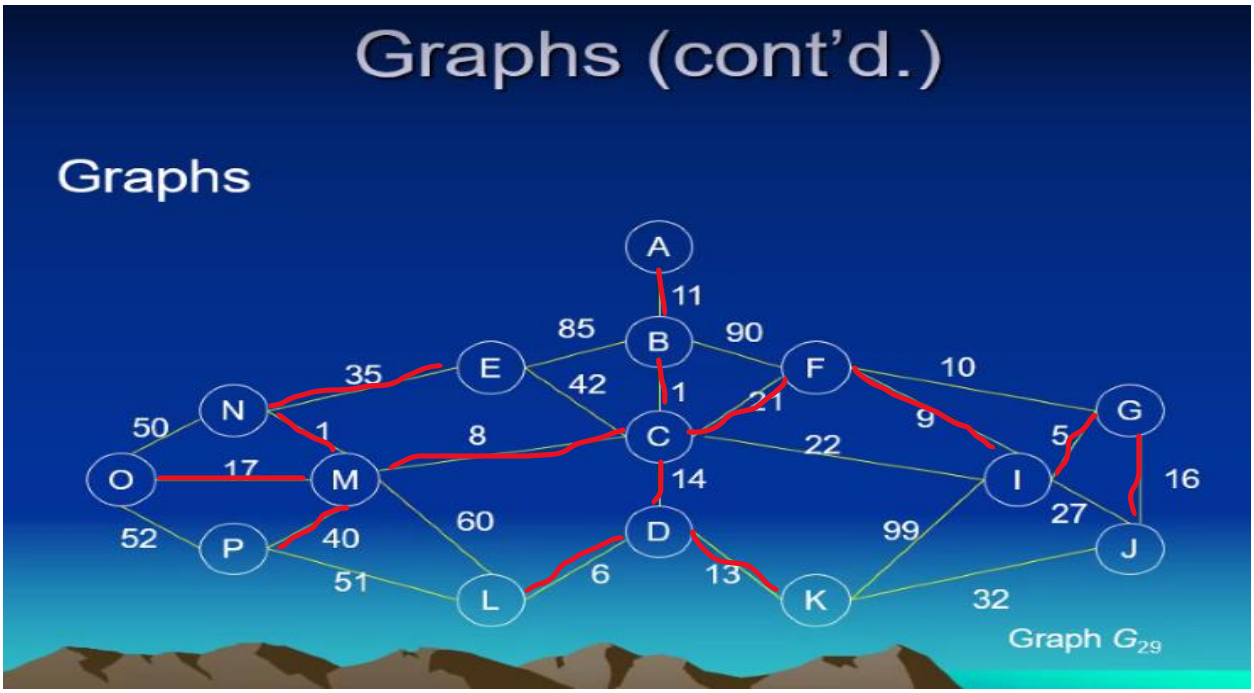
Graph Exercise



Indegree:	Outdegree:
1 is 2	1 is 2
2 is 1	2 is 2
3 is 1	3 is 0
4 is 2	4 is 0
5 is 1	5 is 1
6 is 1	6 is 2

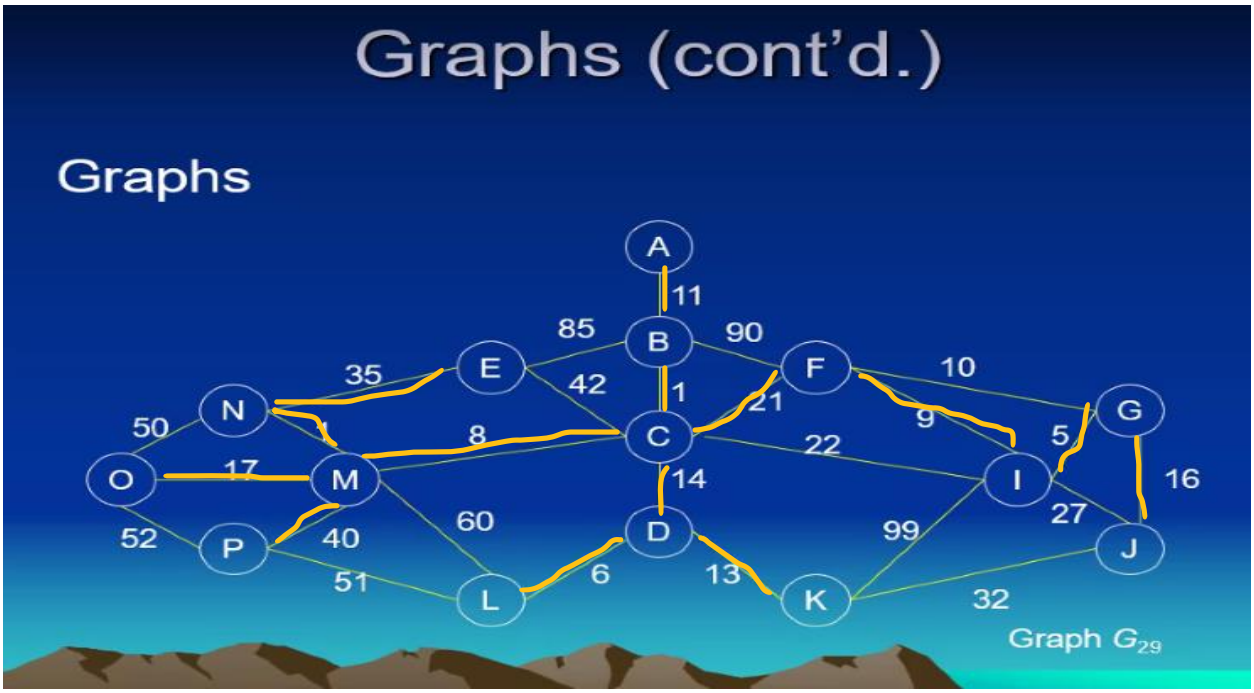


Indegree:	Outdegree:
1 is 3	1 is 1
2 is 1	2 is 2
3 is 1	3 is 2
4 is 2	4 is 3
5 is 2	5 is 1



Kruskal's Algorithm:

W(b,c) = 1	~~W(I,j) = 27~~
W(n.m) = 1	~~W(k,j) = 32~~
W(g,i) = 5	W(e,n) = 35
W(d,l) = 6	W(m,p) = 40
W(c,m) = 8	~~W(e,c) = 42~~
W(f,i) = 9	~~W(n,o) = 50~~
~~W(f,g) = 10~~	~~W(p,l) = 51~~
W(a,b) = 11	~~W(o,p) = 52~~
W(d,k) = 13	~~W(m,l) = 60~~
W(c,d) = 14	~~W(e,b) = 85~~
W(g,j) = 16	~~W(b,f) = 90~~
W(o,m) = 17	~~W(k,i) = 99~~
W(c,f) = 21	Total: 197
~~W(c,i) = 22~~	



Prim's Algorithm:

W(a,b) = 11

W(b,c) = 1

W(c,m) = 8

W(n,m) = 1

W(c,d) = 14

W(d,l) = 6

W(d,k) = 13

W(m,o) = 17

W(c,f) = 21

W(f,i) = 9

W(I,g) = 5

W(g,j) = 16

W(e,n) = 35

W(m,p) = 40 Total: 197