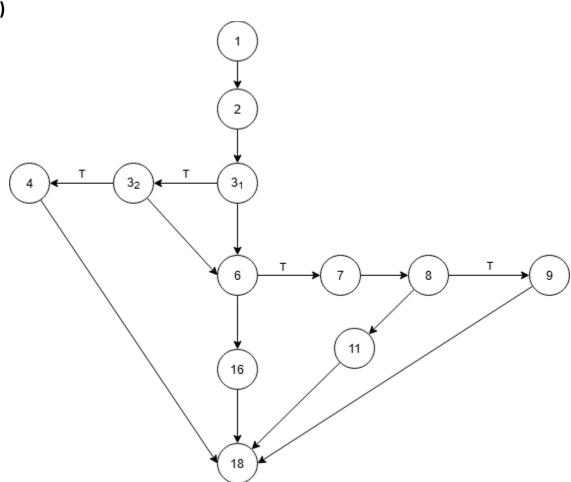
Homework 1 – Comp 5710

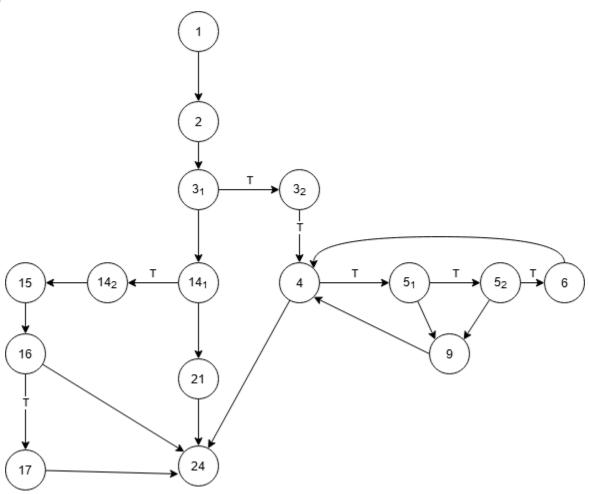
Haden Stuart - has0027

1.)



- (1) |E| = 15; |V| = 12; V(G) = 15 12 + 2 = 5
- (2) Regions number = 4; V(G) = 4 + 1 = 5
- (3) Conditions number = 4; V(G) = 4 + 1 = 5

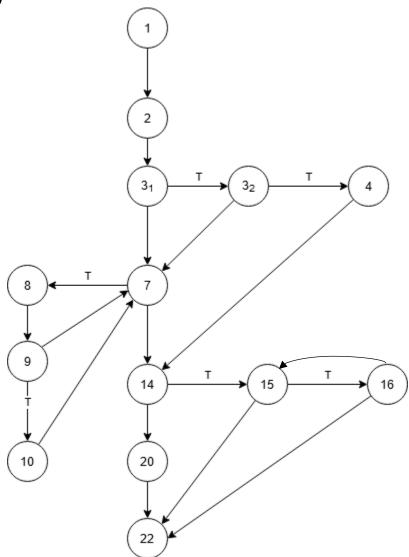
2.)



- (1) |E| = 21; |V| = 16; V(G) = 21 16 + 2 = 7
- (2) Regions number = 6; V(G) = 6 + 1 = 7
- (3) Conditions number = 6; V(G) = 6 + 1 = 7

$$P^* = 3 + (2^3) = 11$$

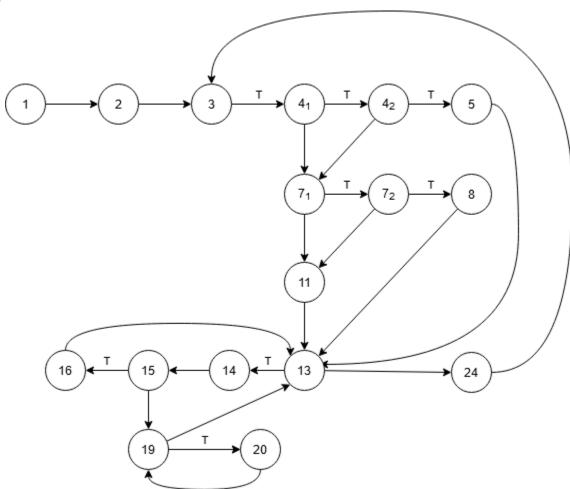
3.)



- (1) |E| = 19; |V| = 14; V(G) = 19 14 + 2 = 7
- (2) Regions number = 6; V(G) = 6 + 1 = 7
- (3) Conditions number = 6; V(G) = 6 + 1 = 7

$$P^* = [3 + (2^0 + 2^1 + 2^2 + 2^3)] * [(2^3) + 1] = 17 * 9 = 153$$

4.)



- (4) |E| = 24; |V| = 17; V(G) = 24 17 + 2 = 9
- (5) Regions number = 6; V(G) = 8 + 1 = 9
- (6) Conditions number = 6; V(G) = 8 + 1 = 9

$$P^* = [5 * [1 + 1^3]^2]^2 = (5 * 4)^2 = 400$$