Activity Diagraming Exercises
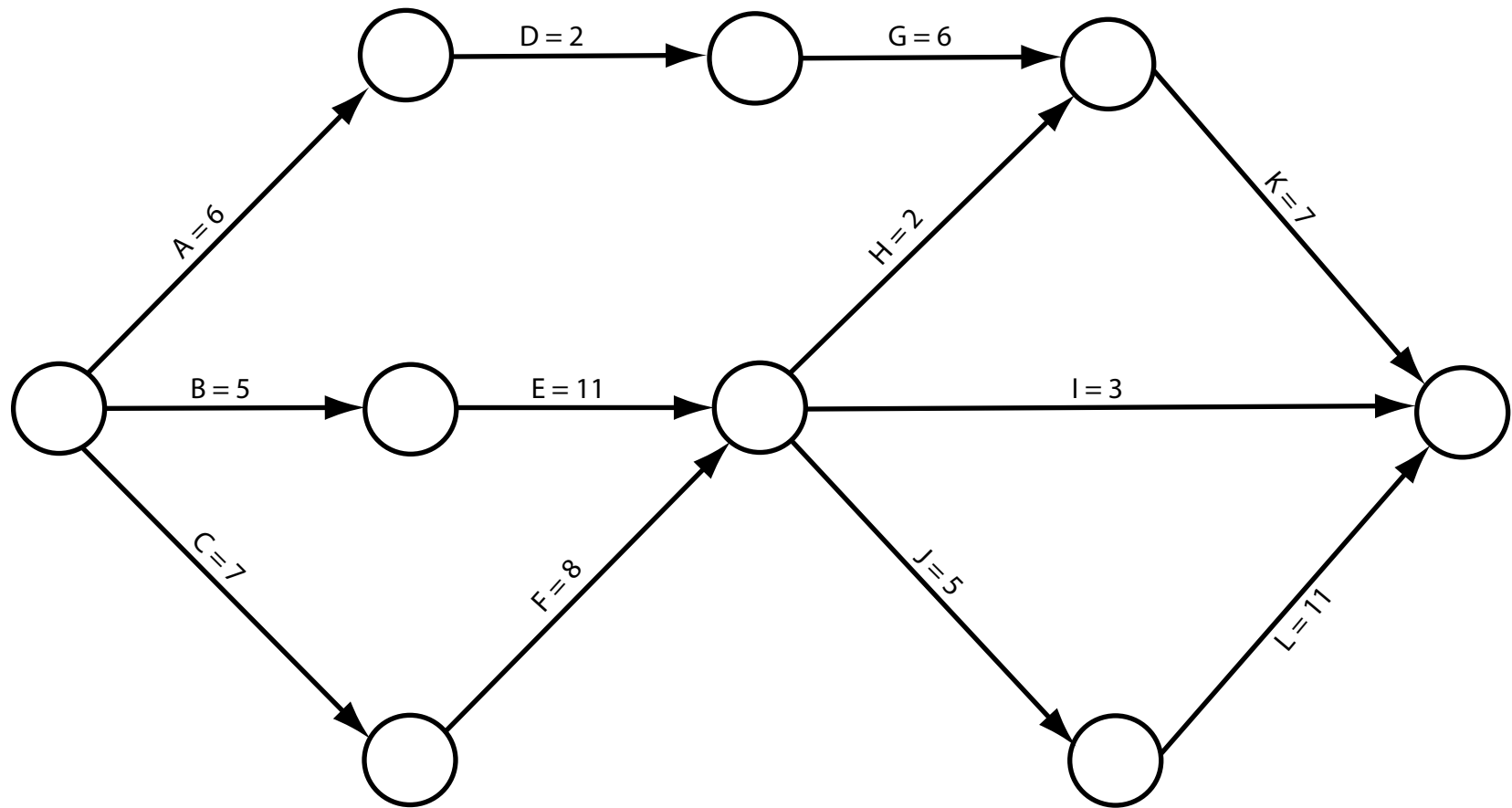
Exercise 1: Follow Along
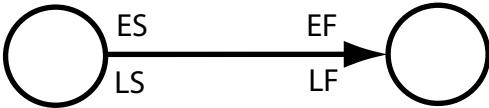
Exercise 2: Do It Yourself

EXERCISE 1

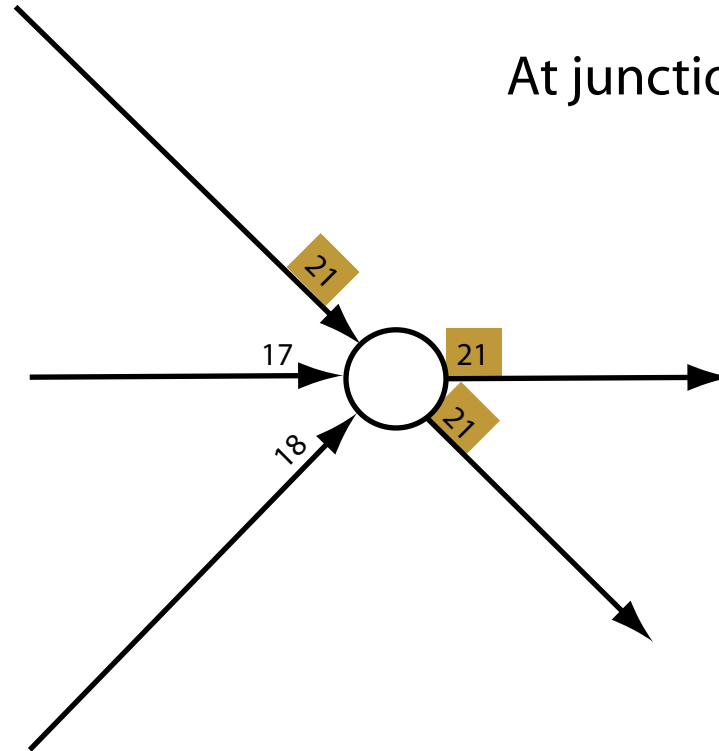ES = Early Start   EF = Early Finish
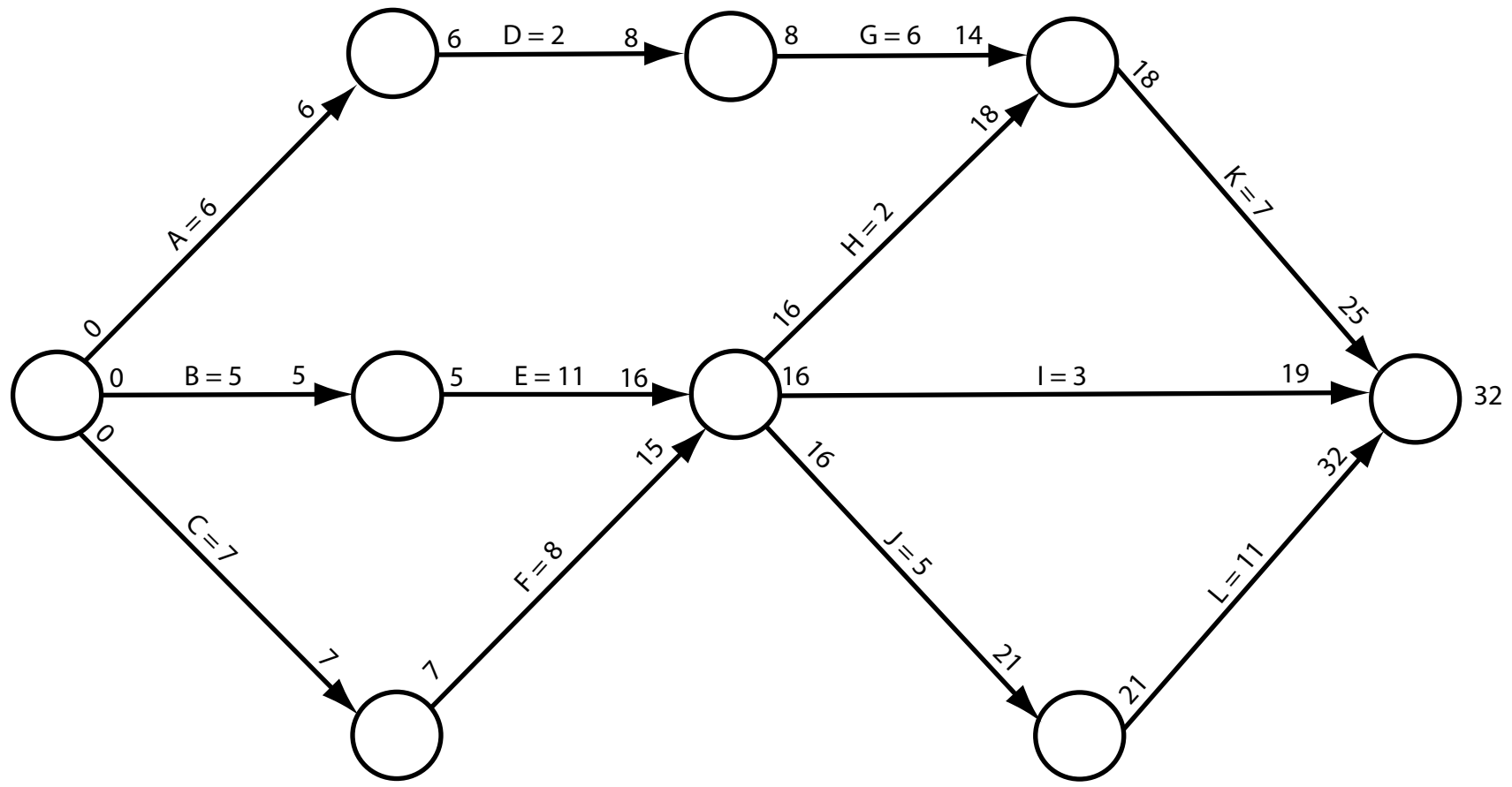
ES   EF

LS   LF

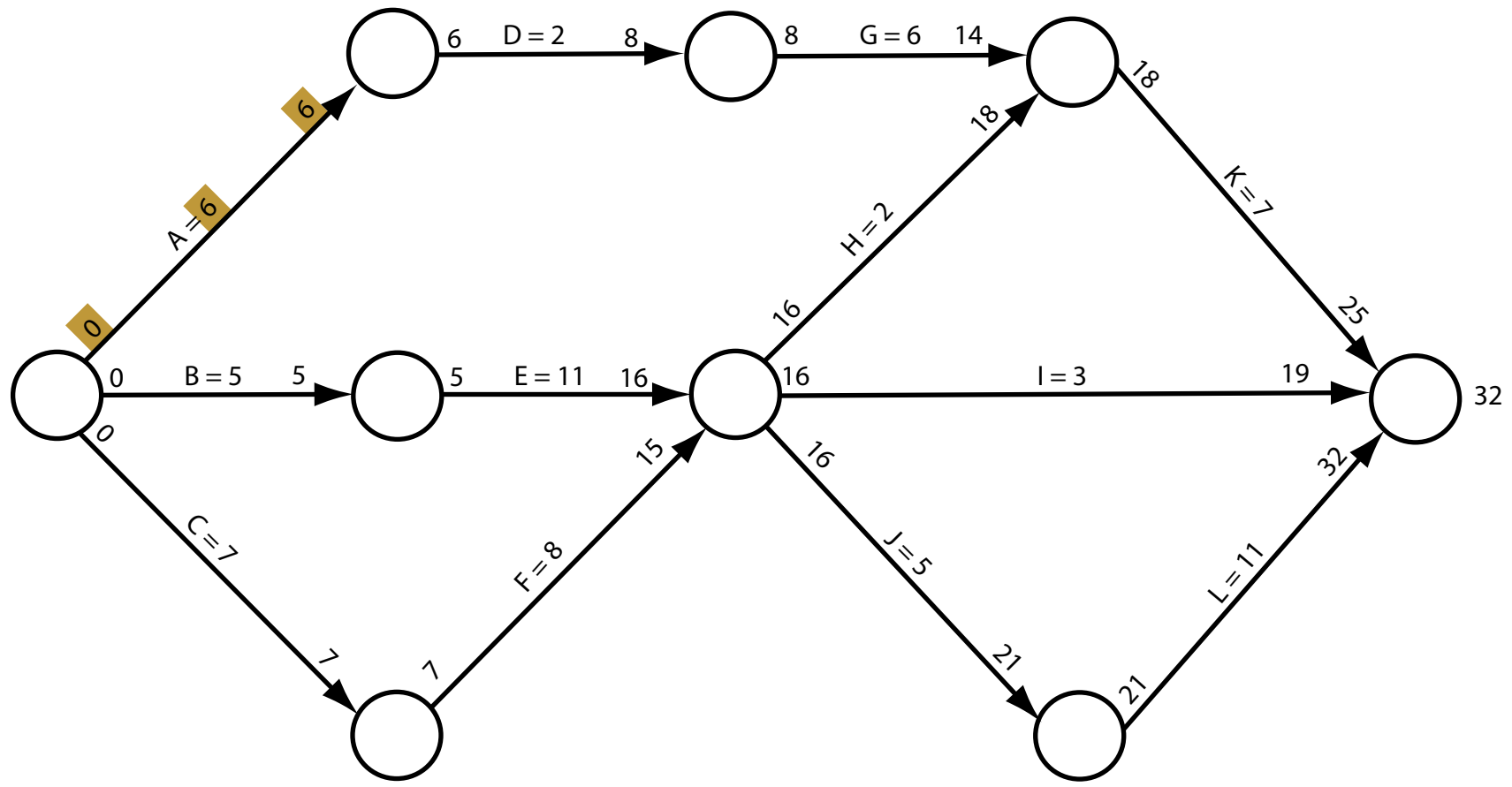LS = Late Start   LF = Late Finish

NOTATION FOR PASSES

At junction, take **_highest_** value.
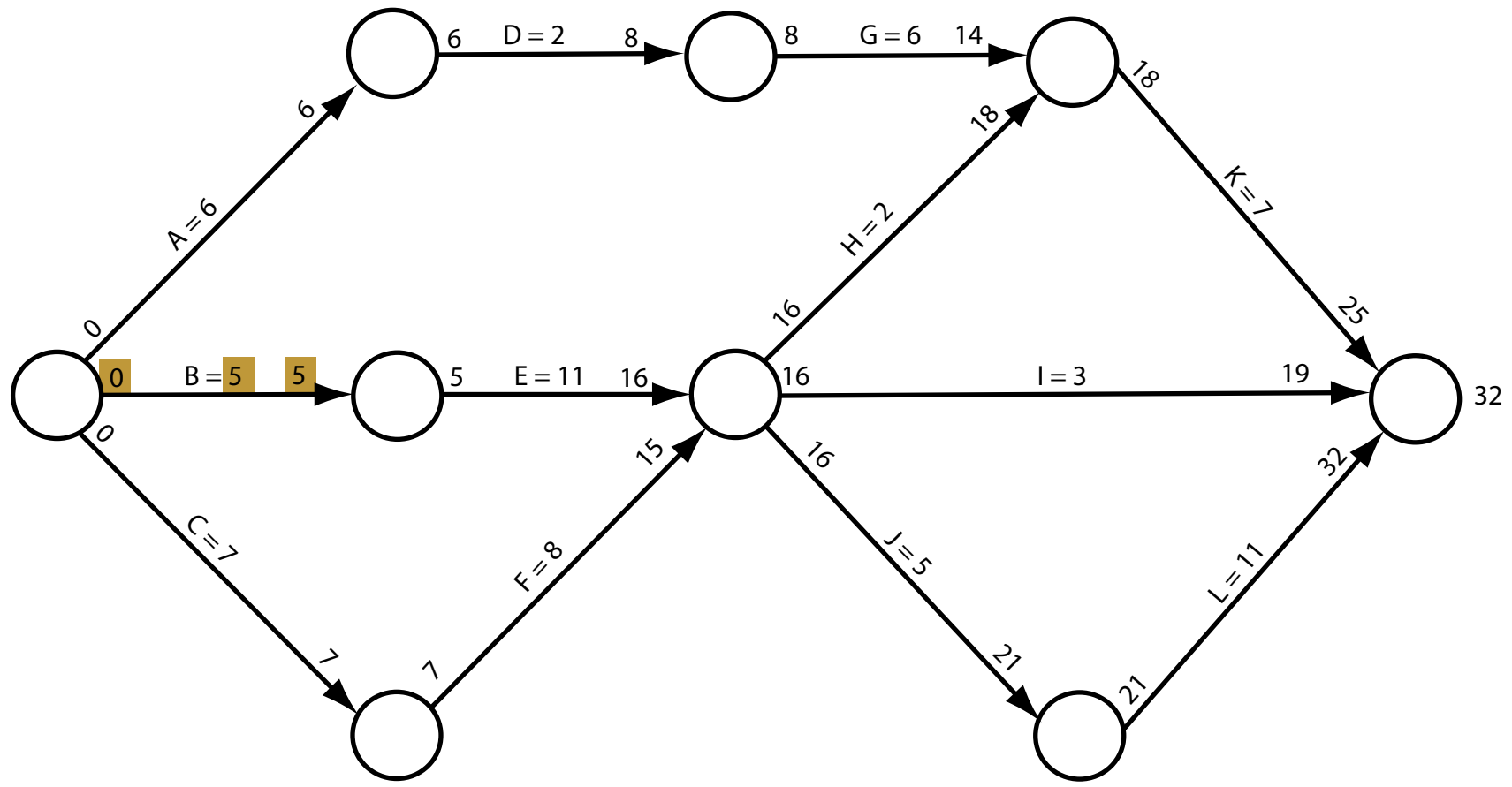
21

17   21

18   21

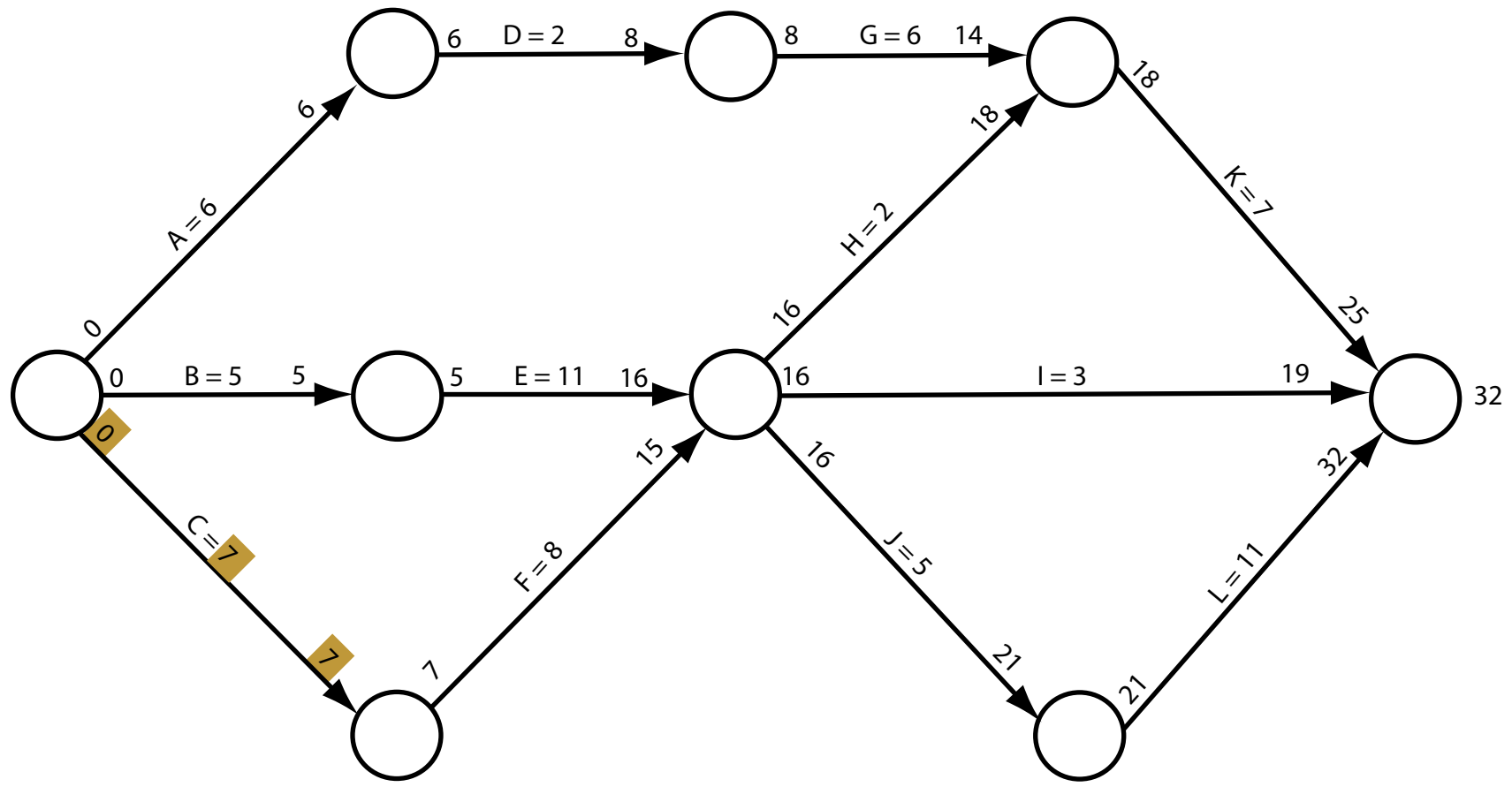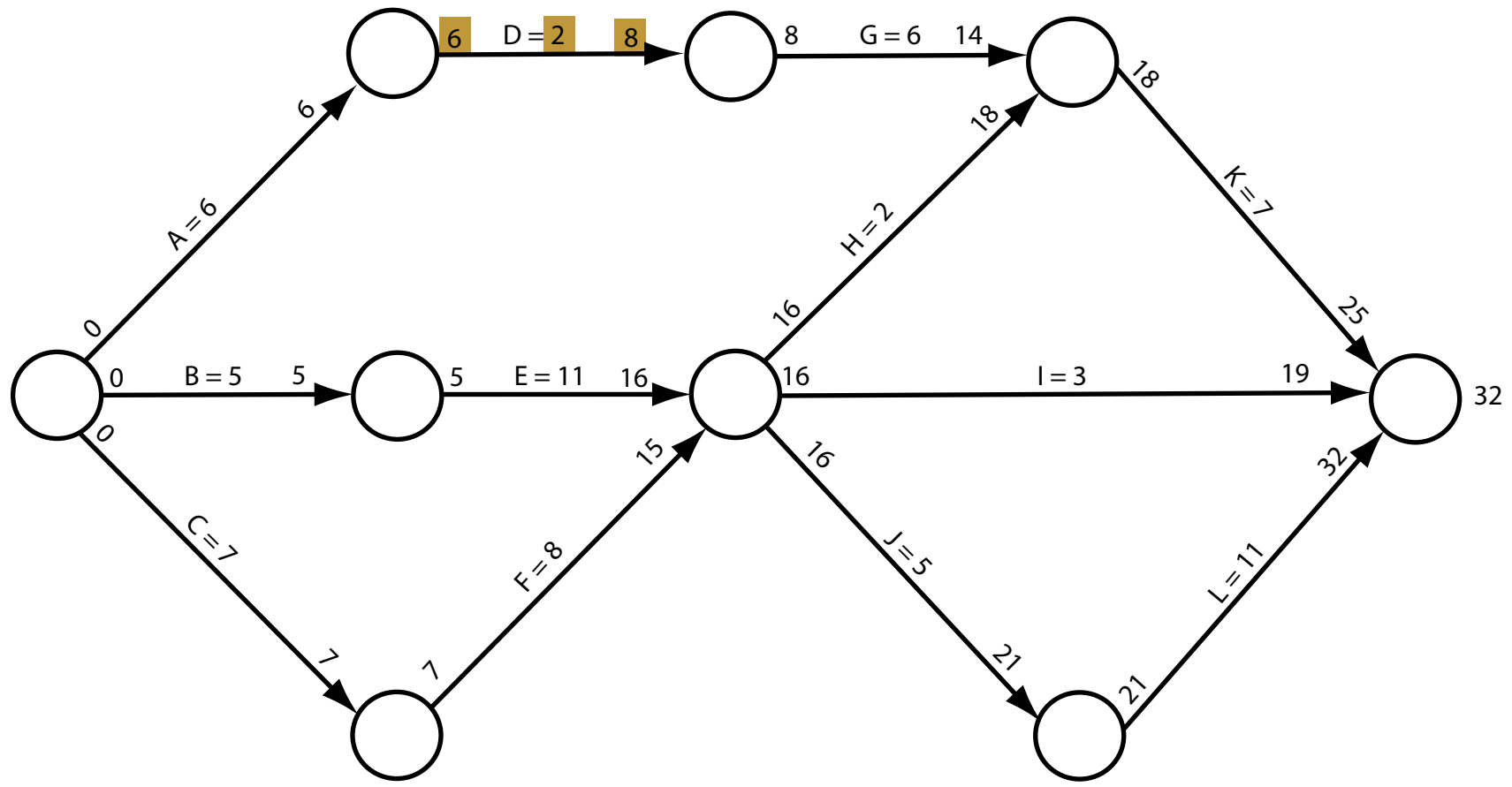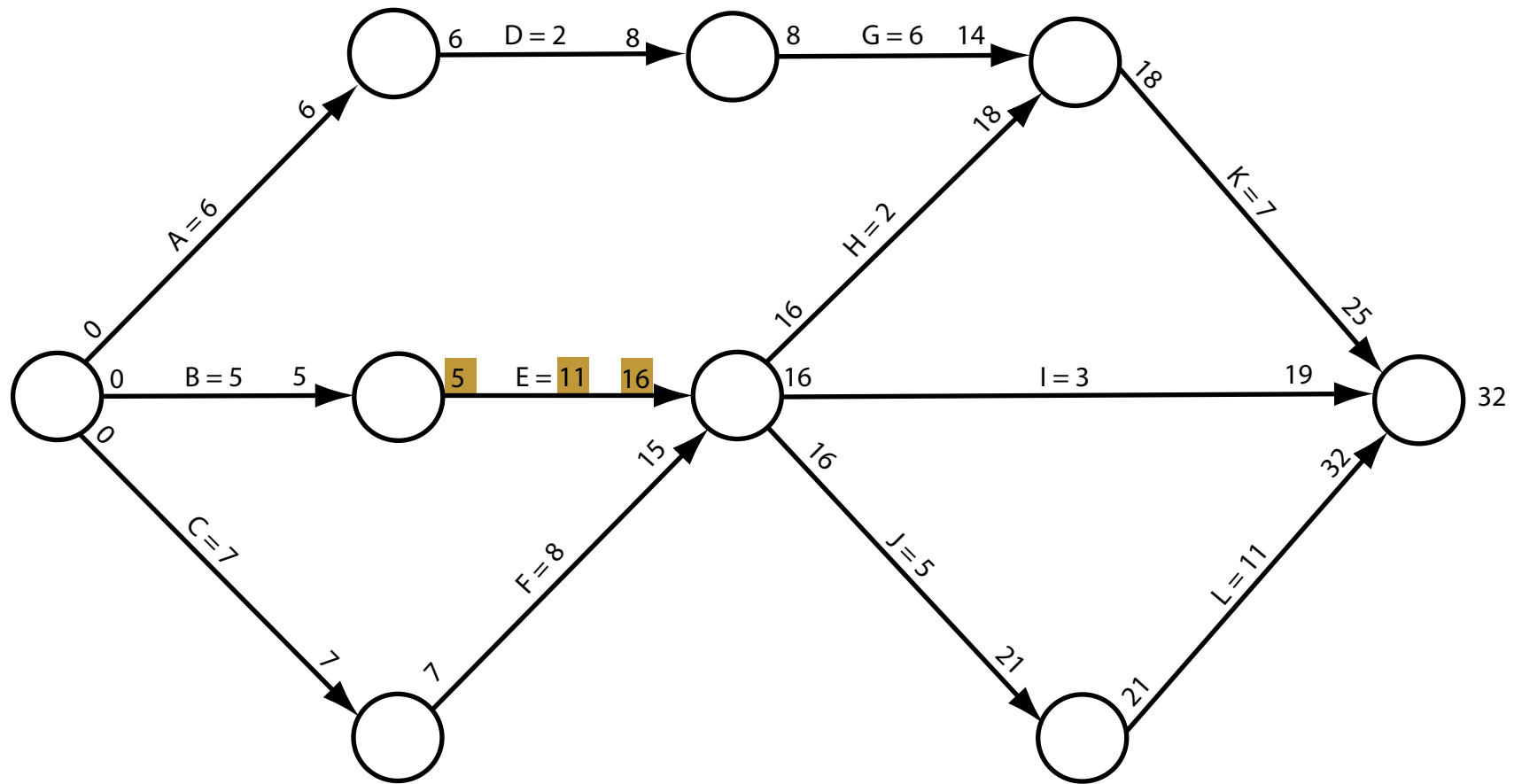**FORWARD PASS (left to right)**

EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS
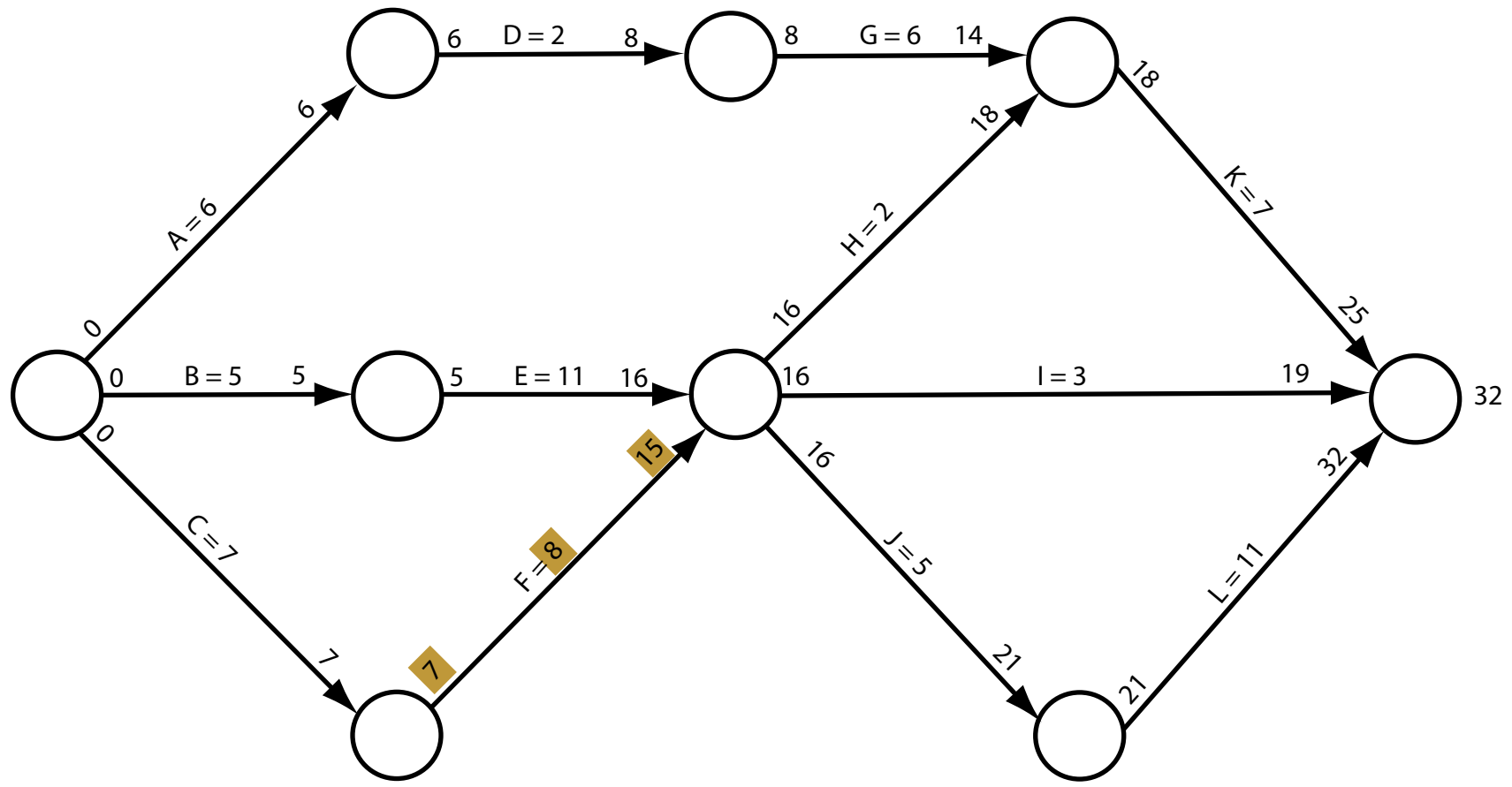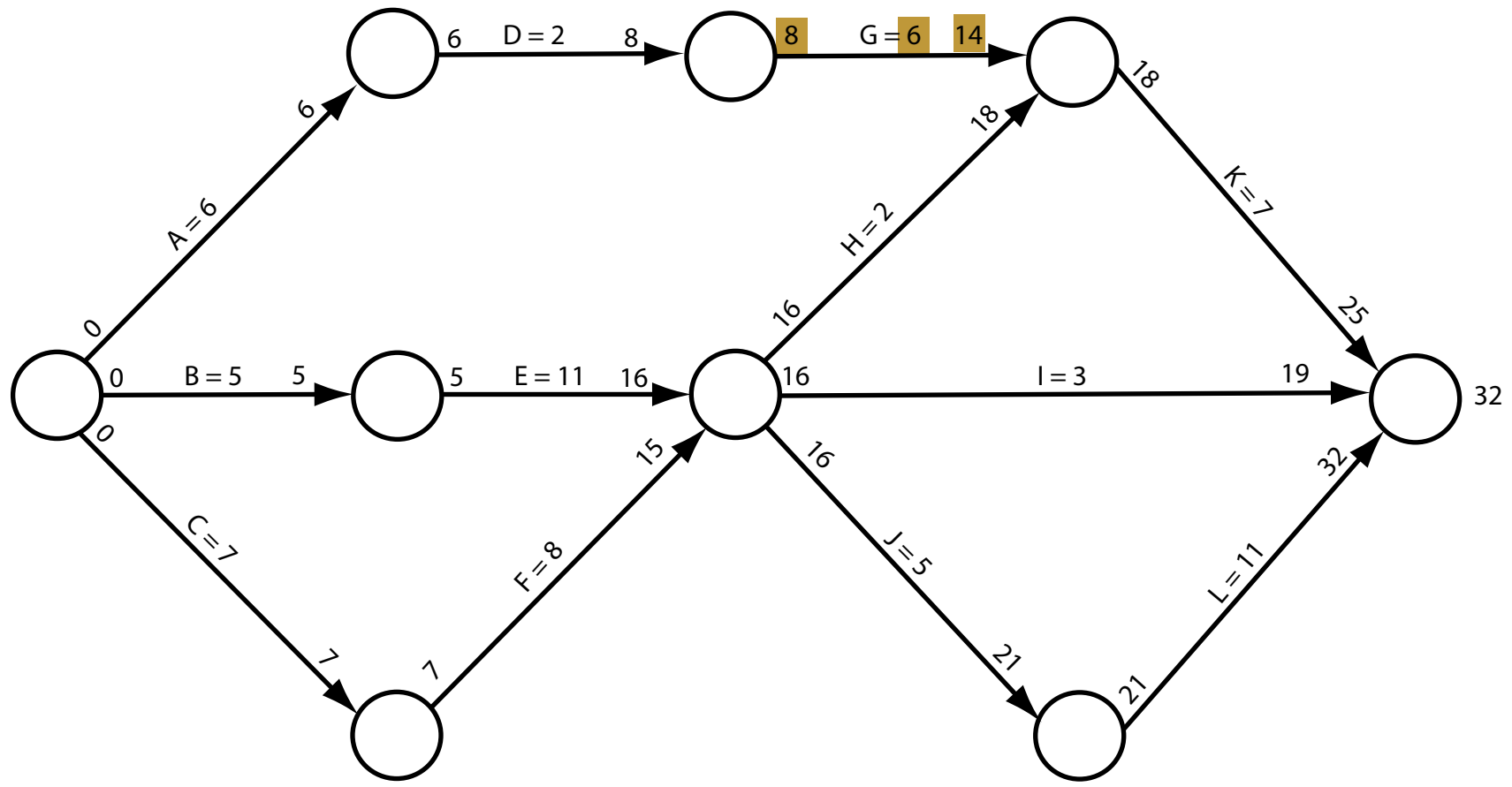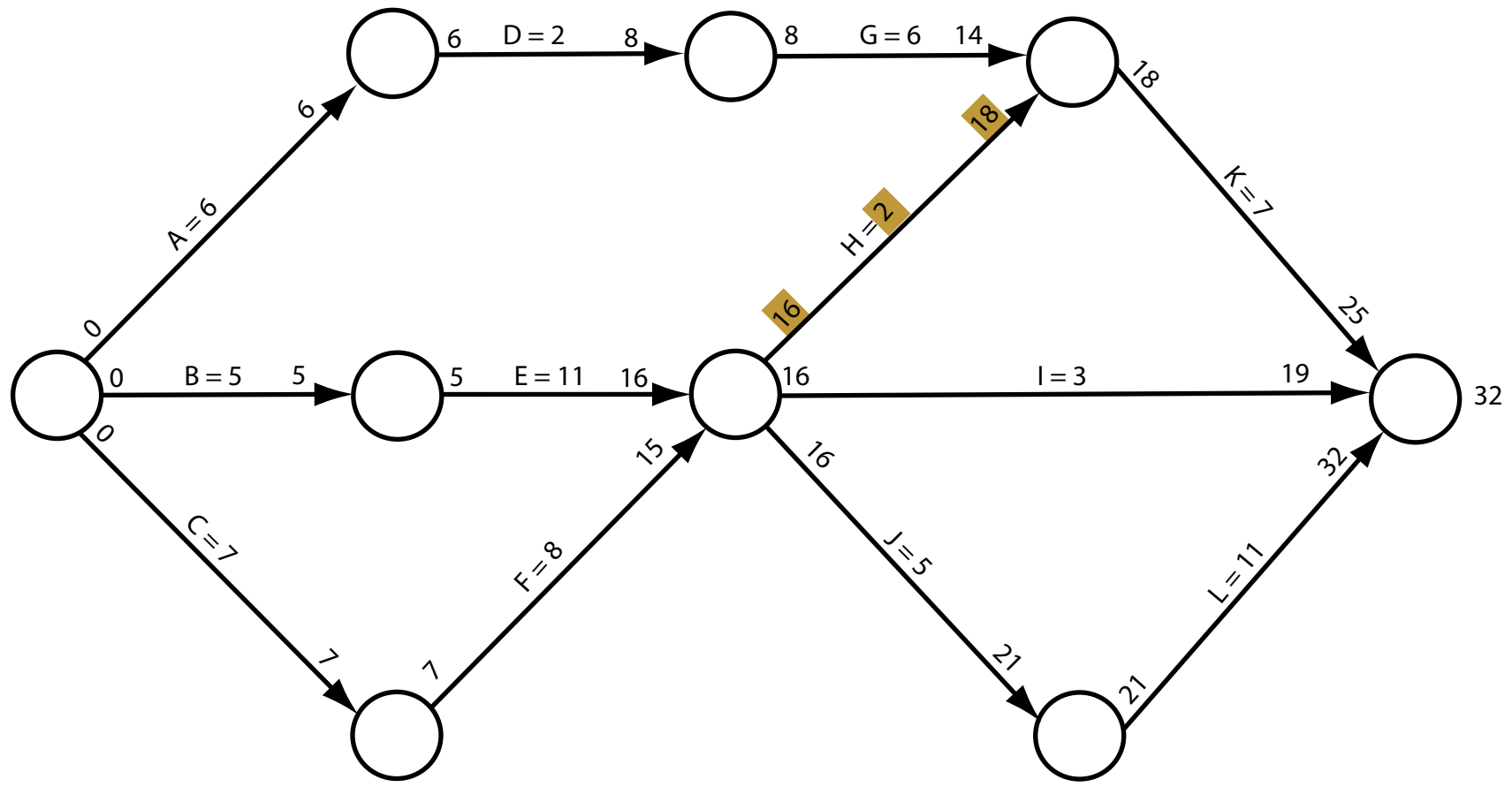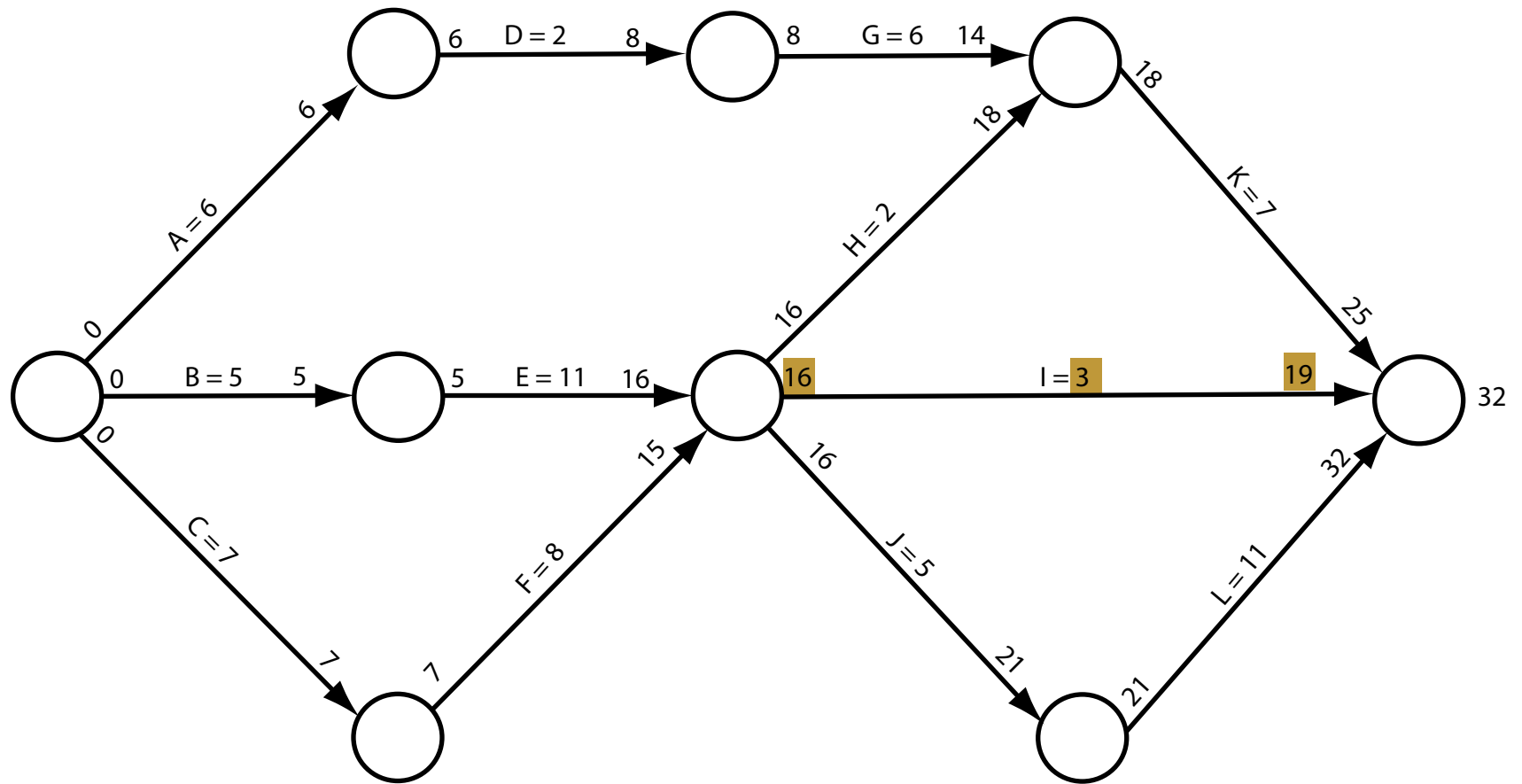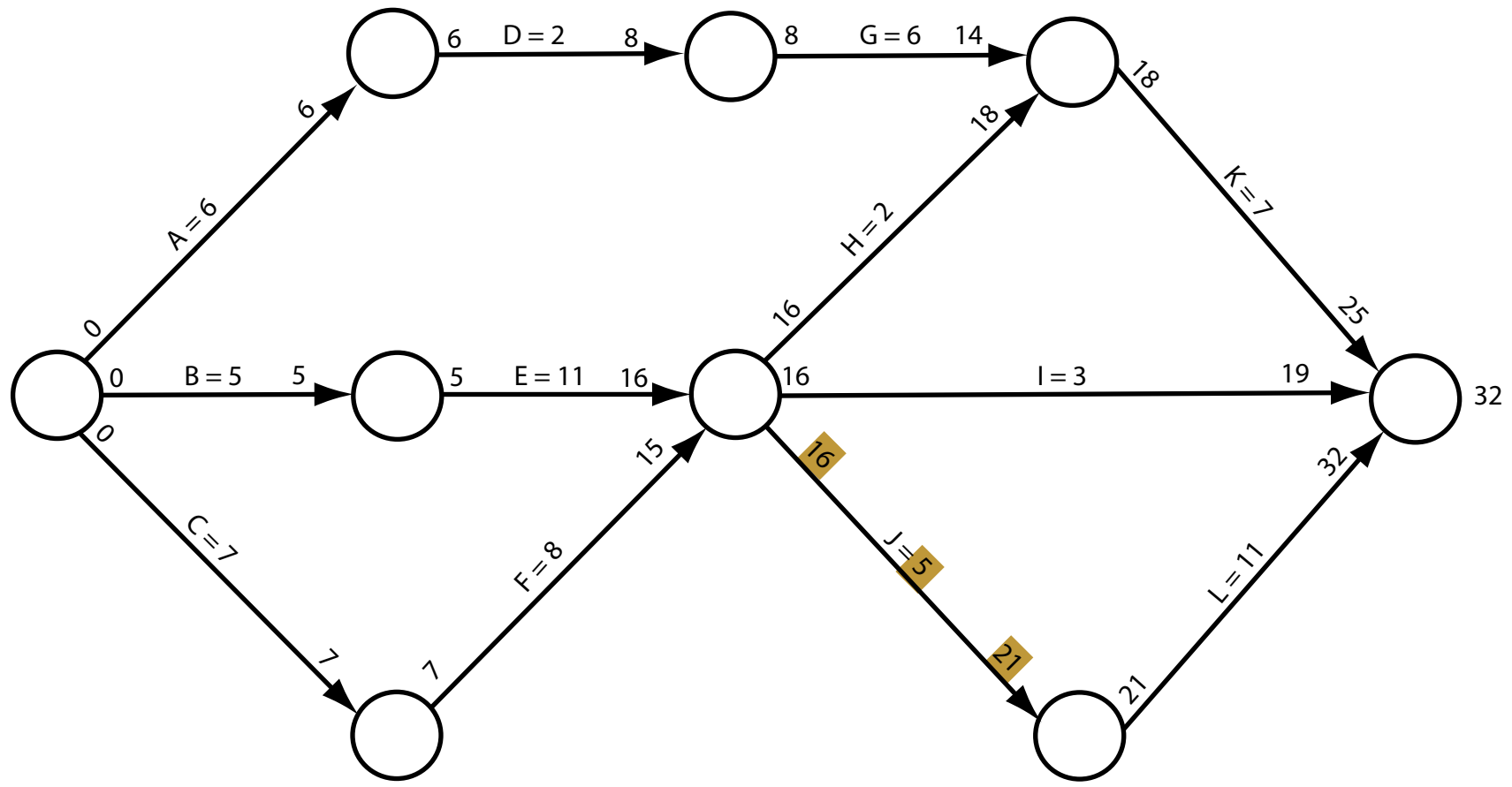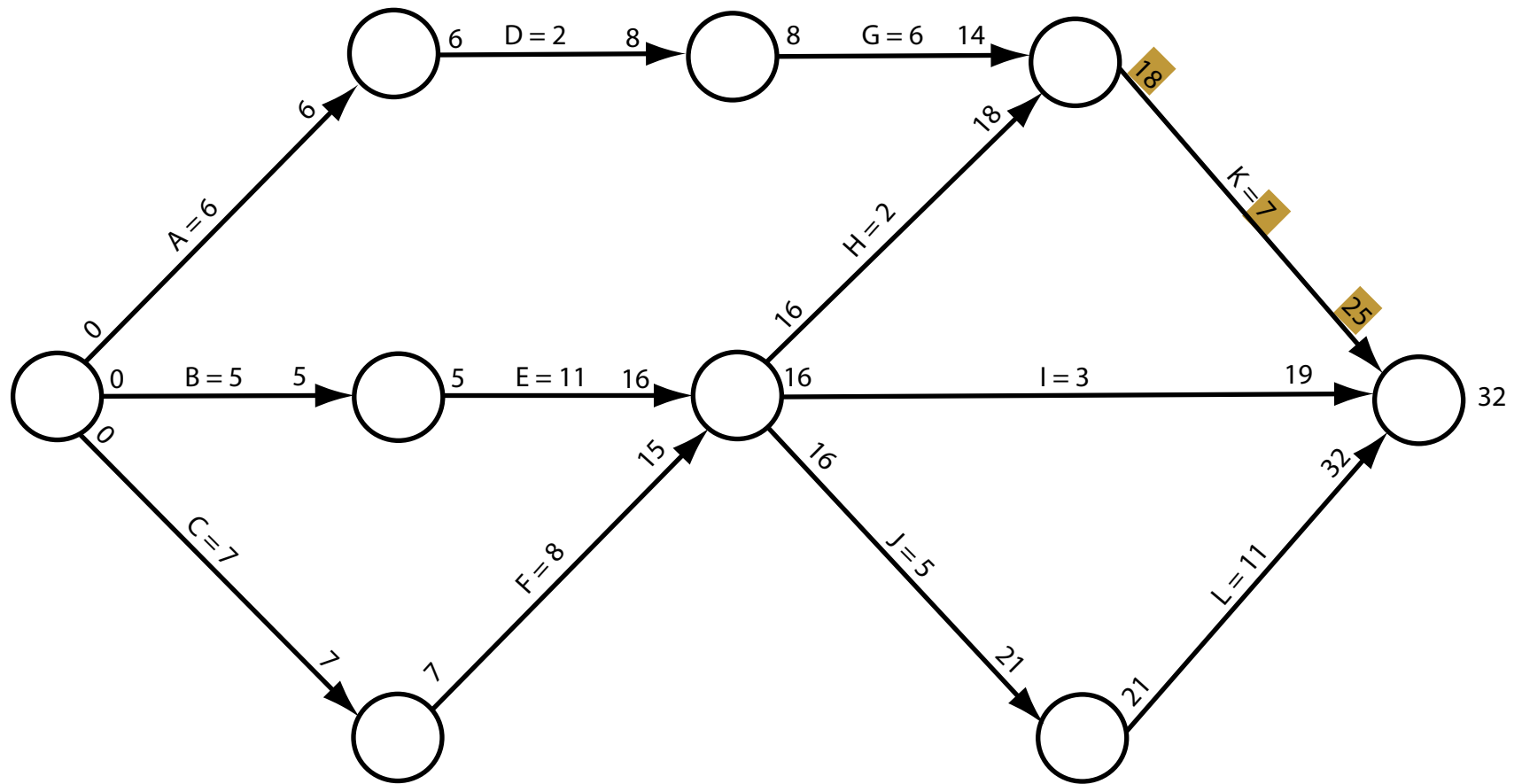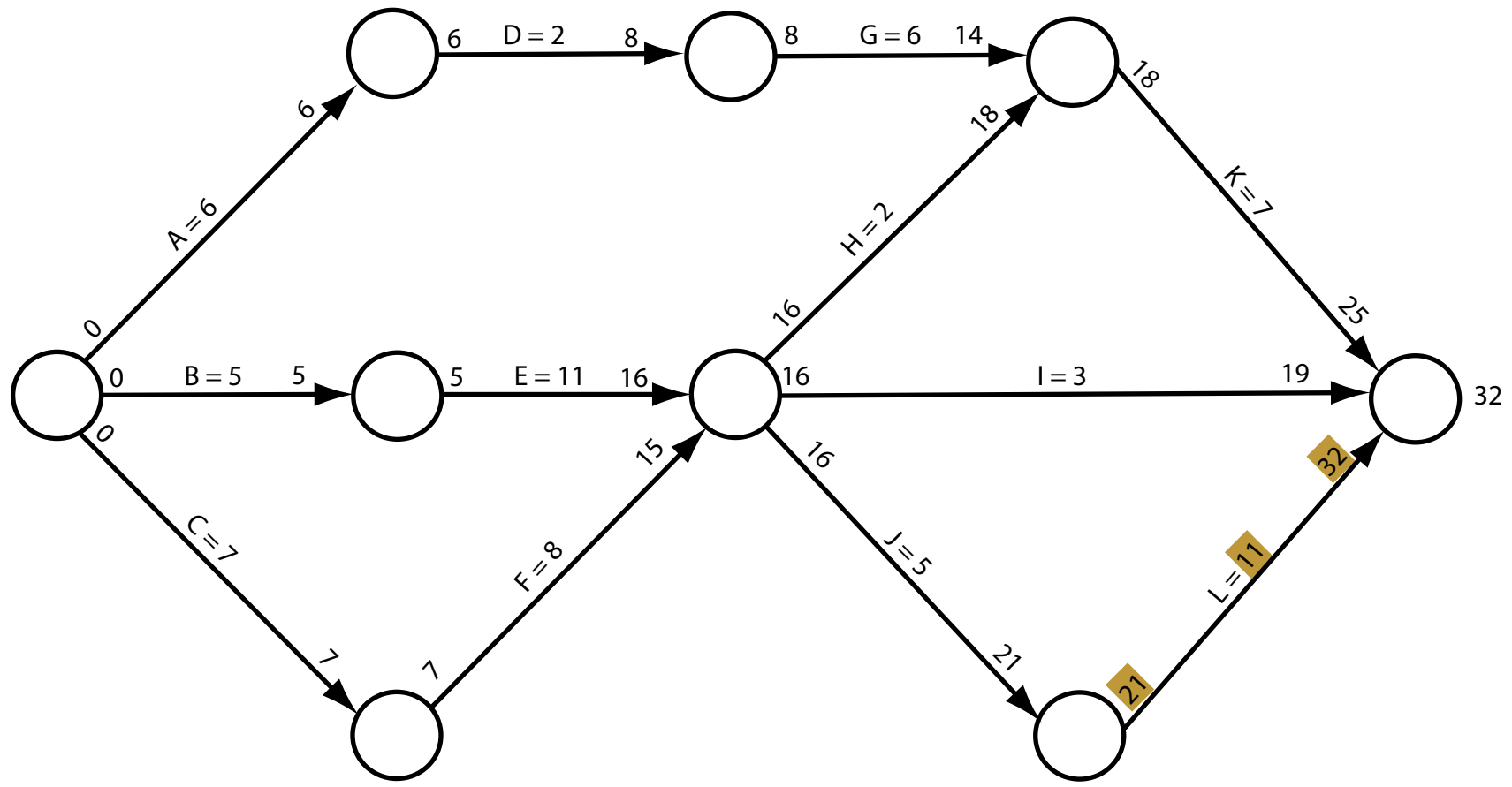
EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS
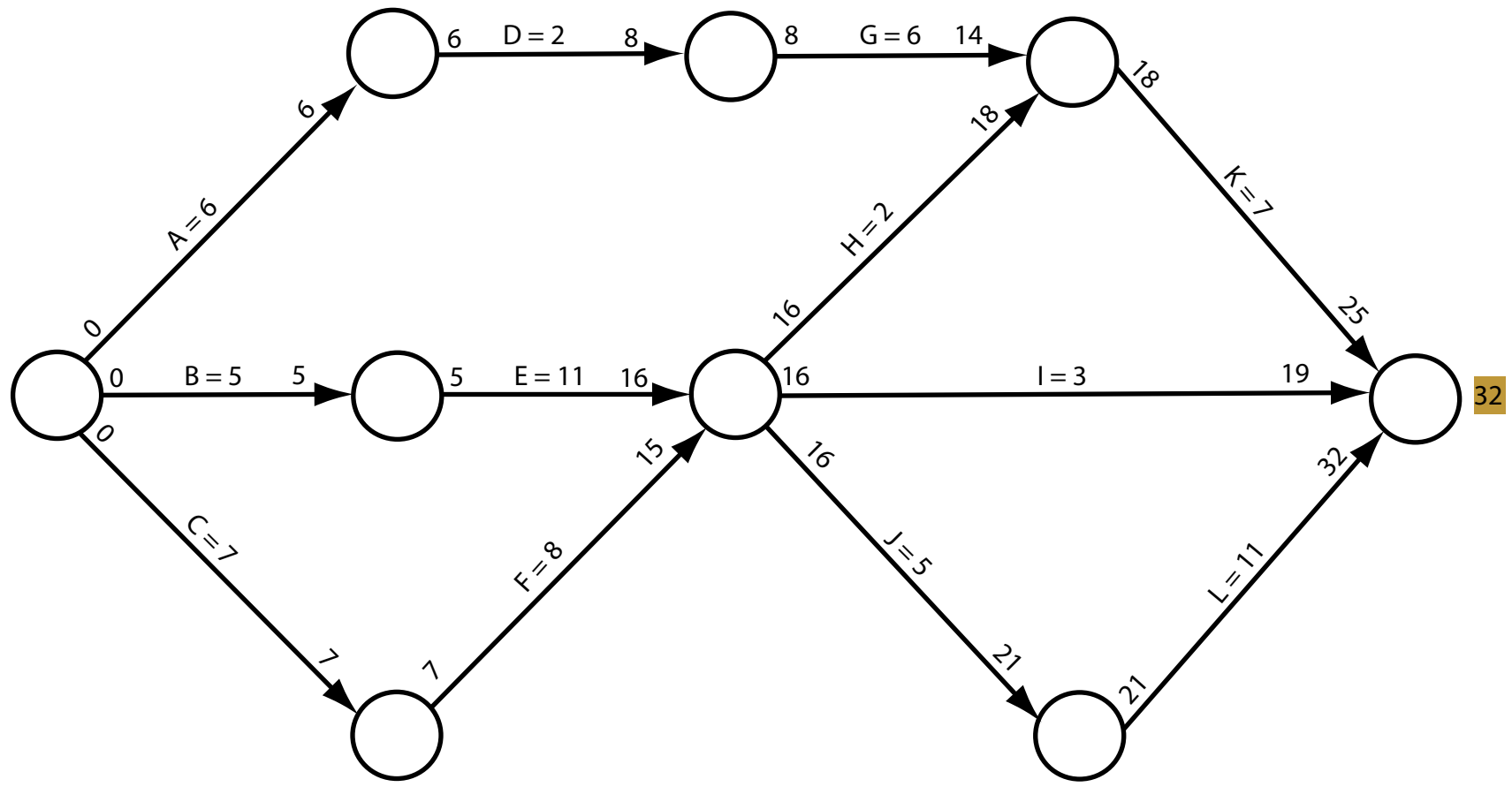
EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS
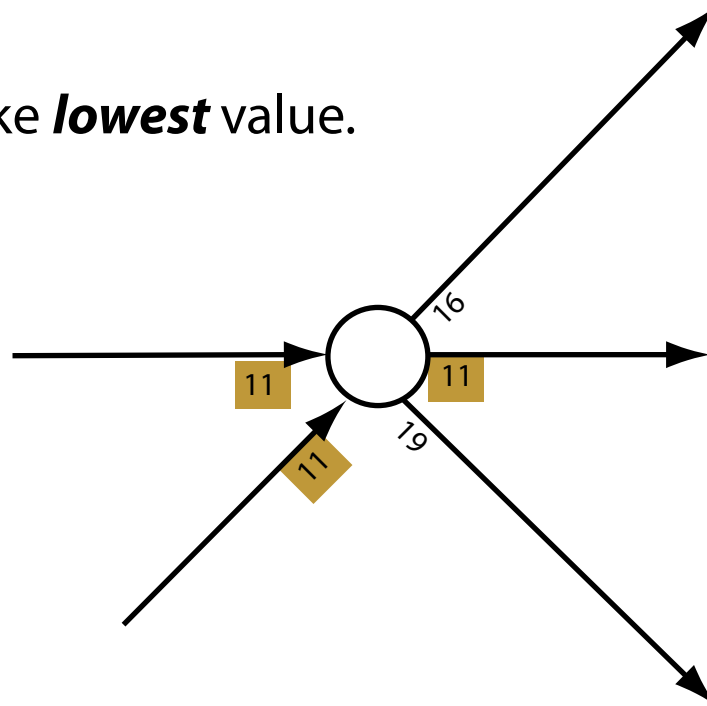
EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS

EXERCISE 1 - FORWARD PASS

At junction, take **lowest** value.
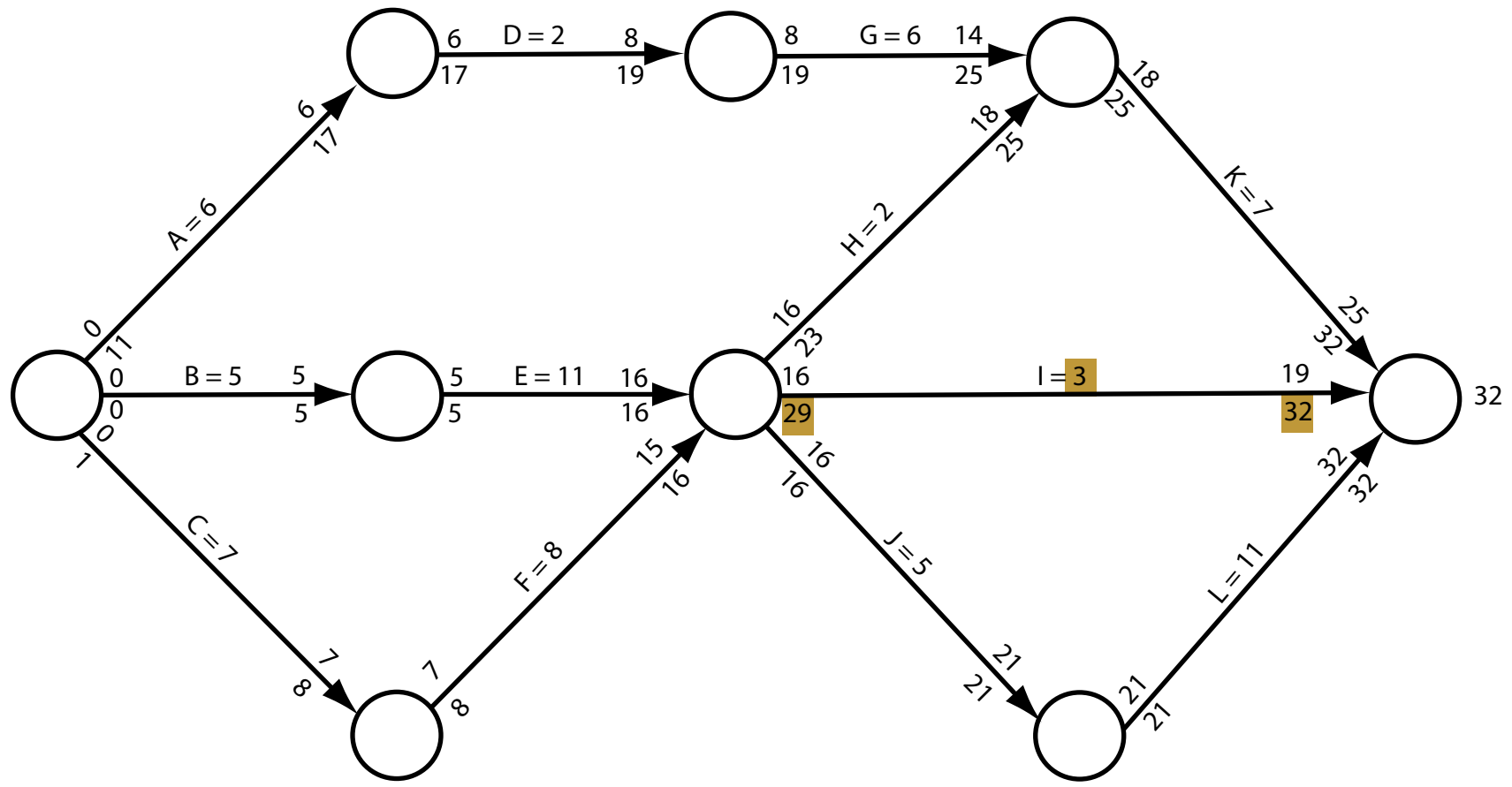
16

11 11

11

19

BACKWARD PASS (right to left)
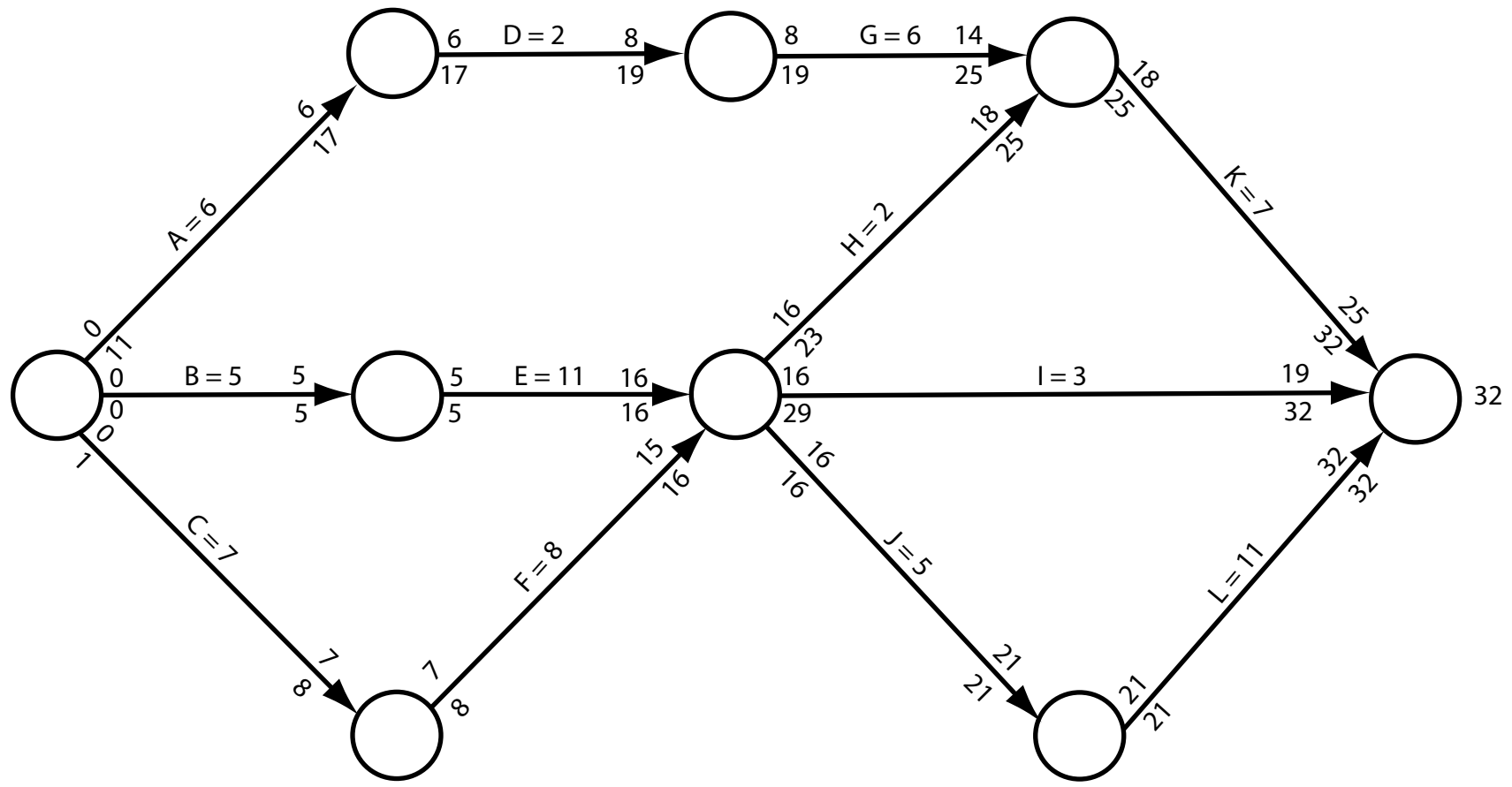
EXERCISE 1 - BACKWARD PASS
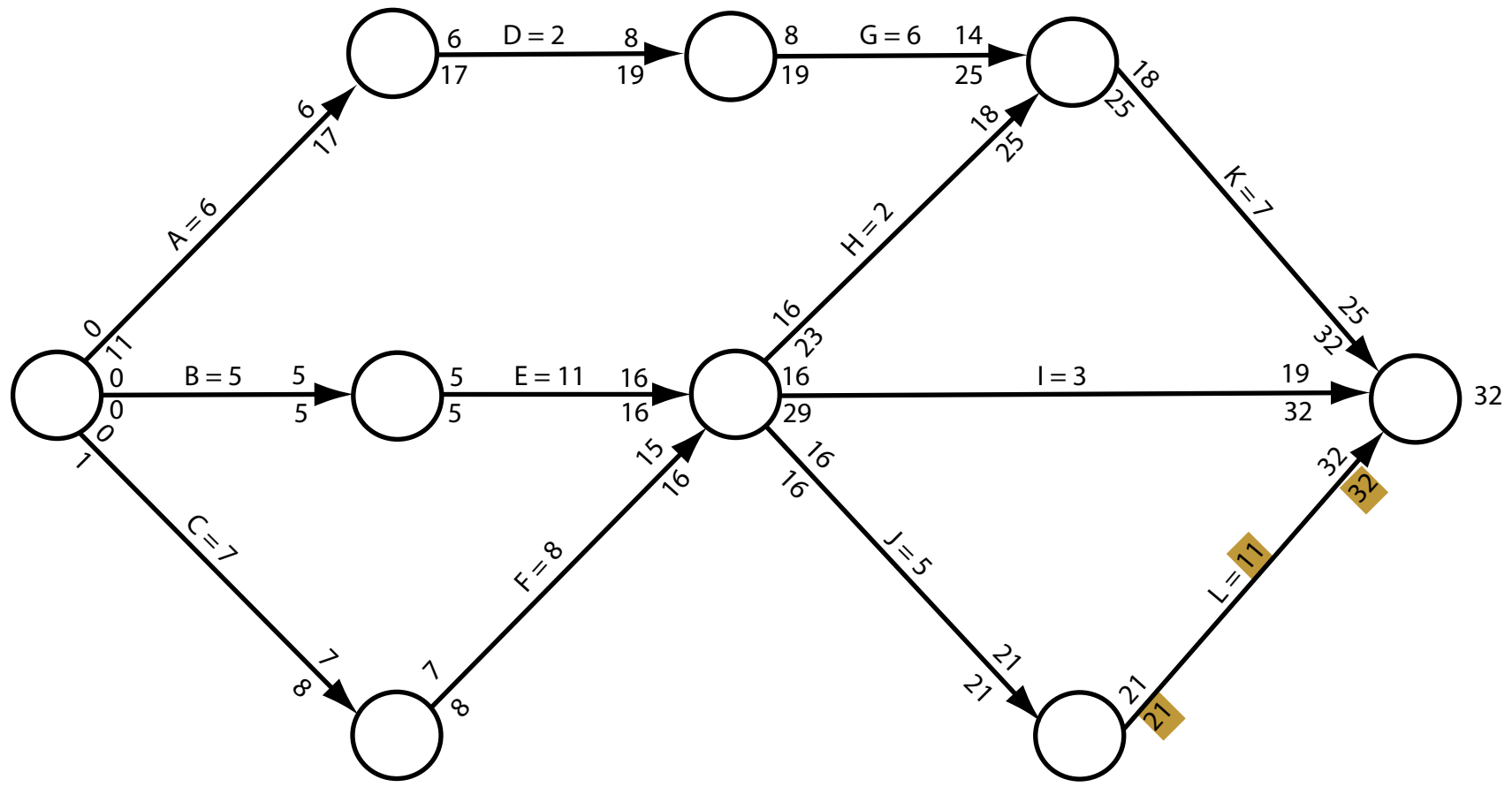
EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS
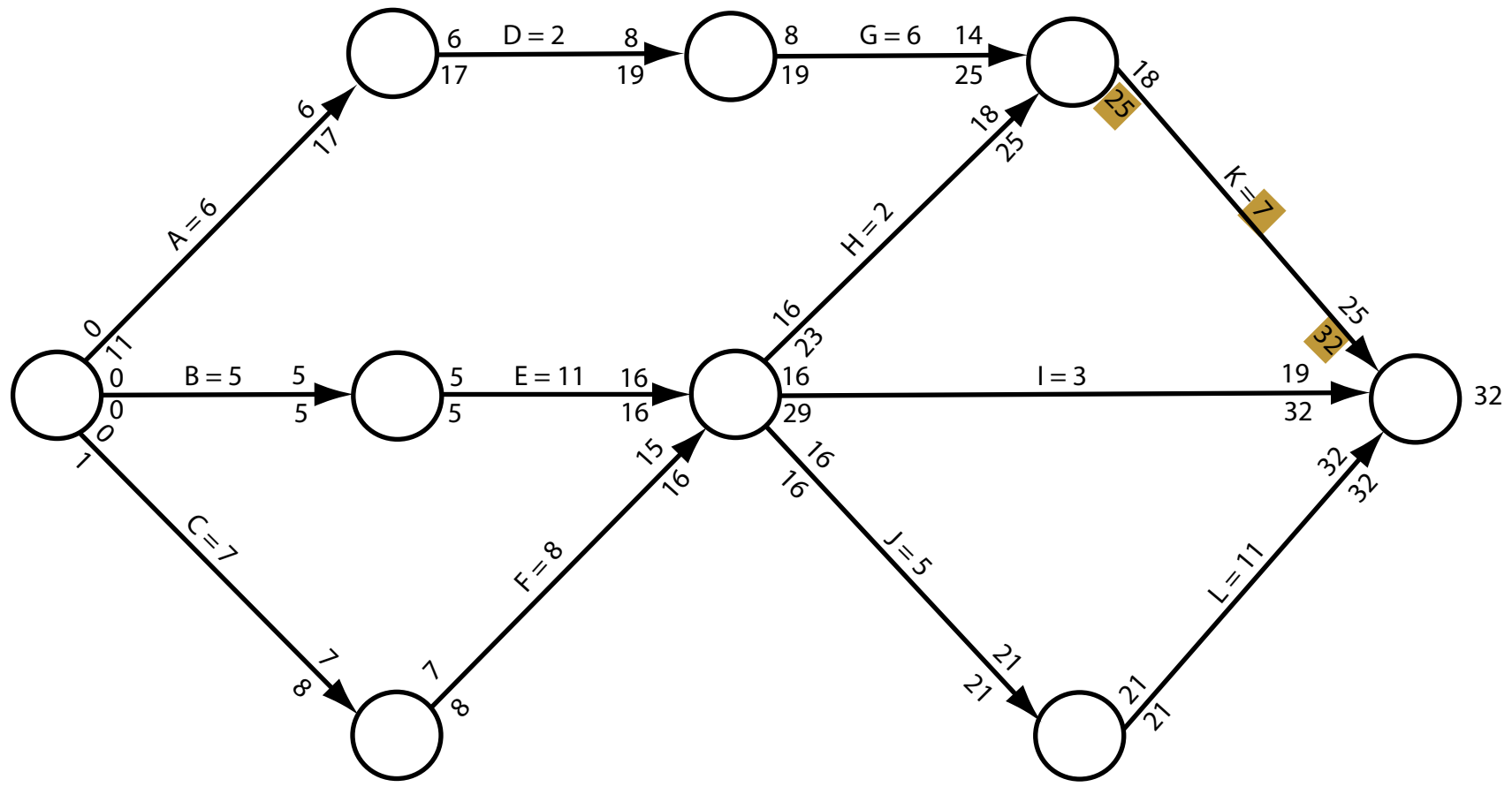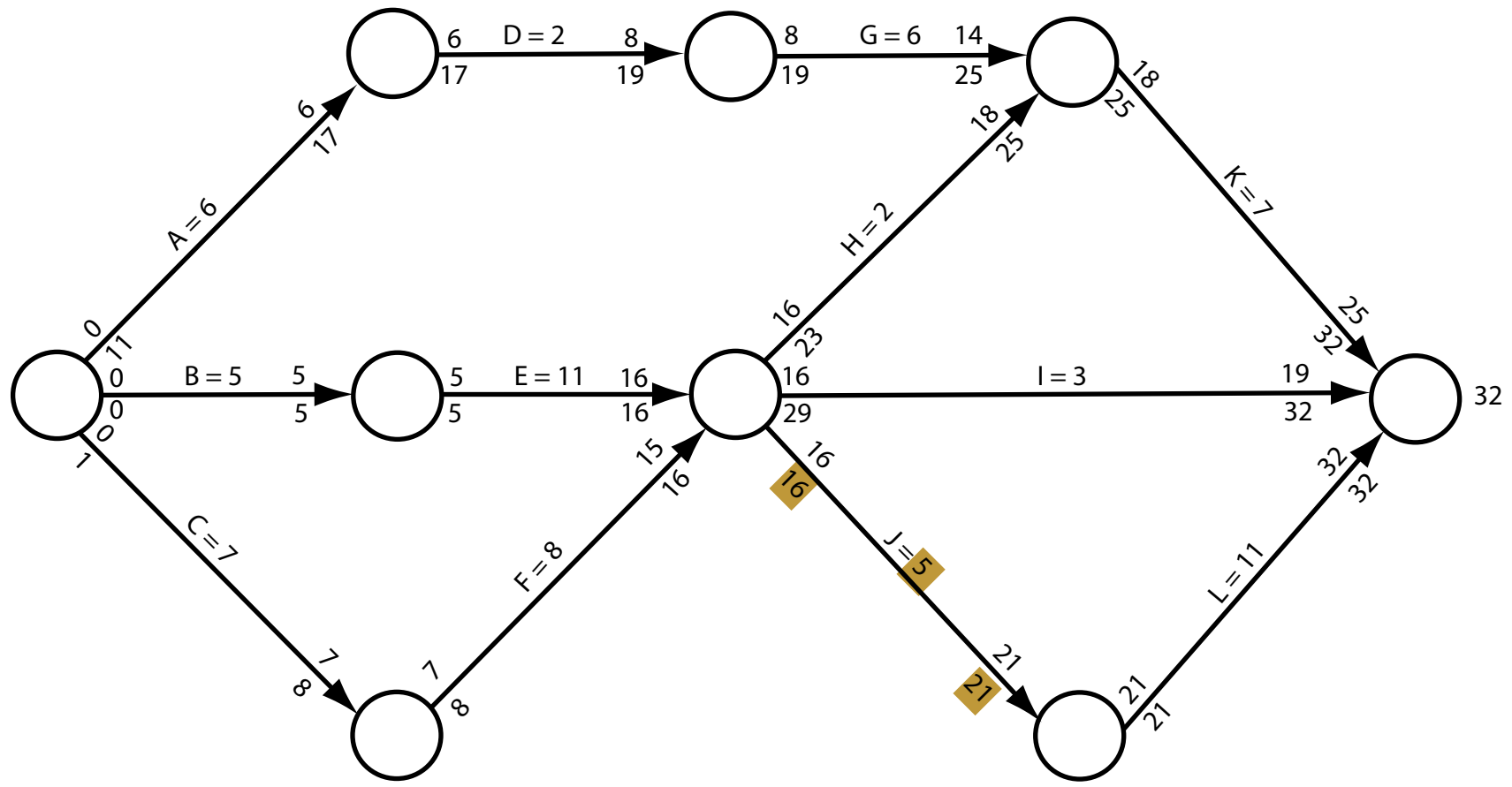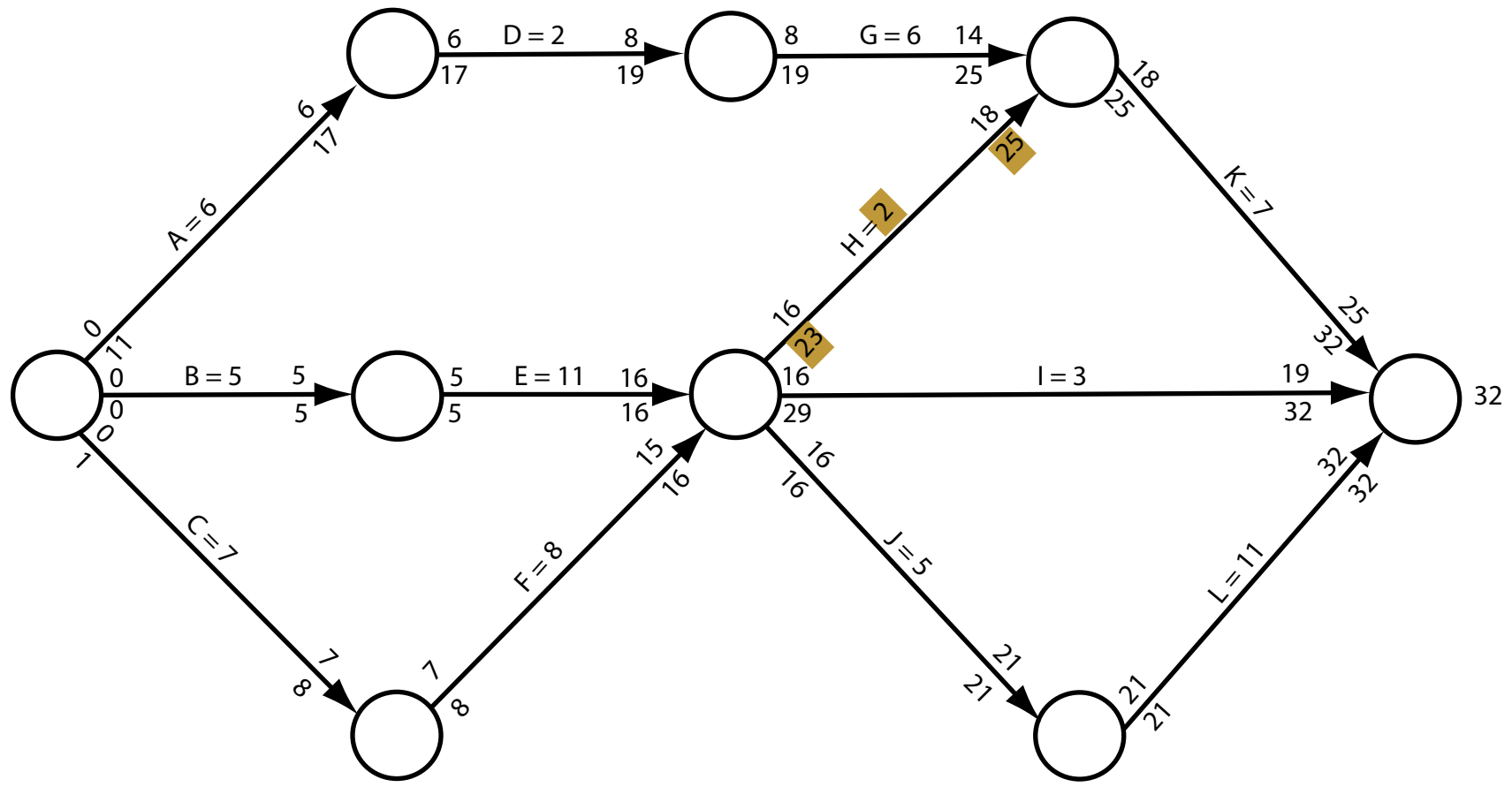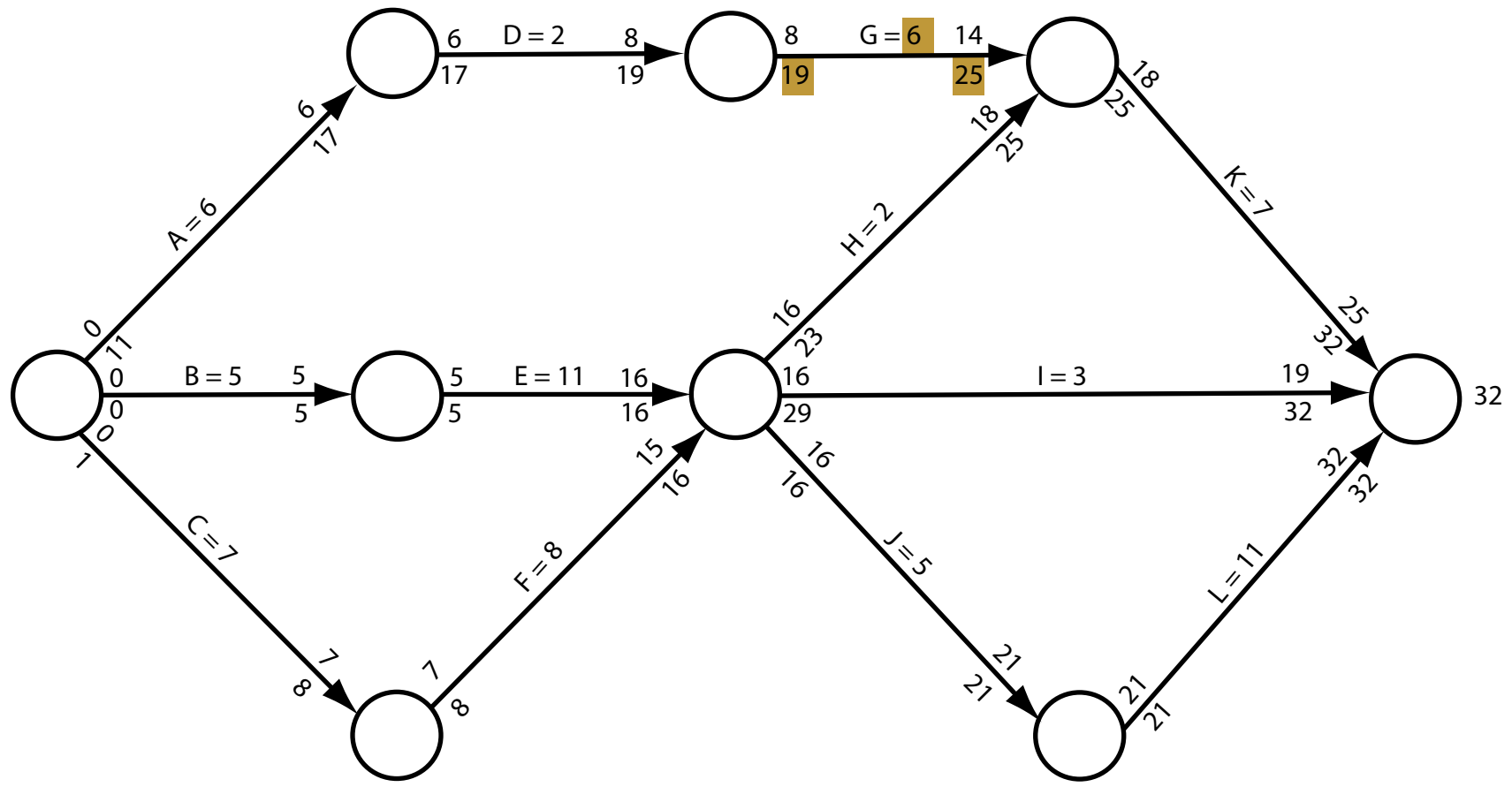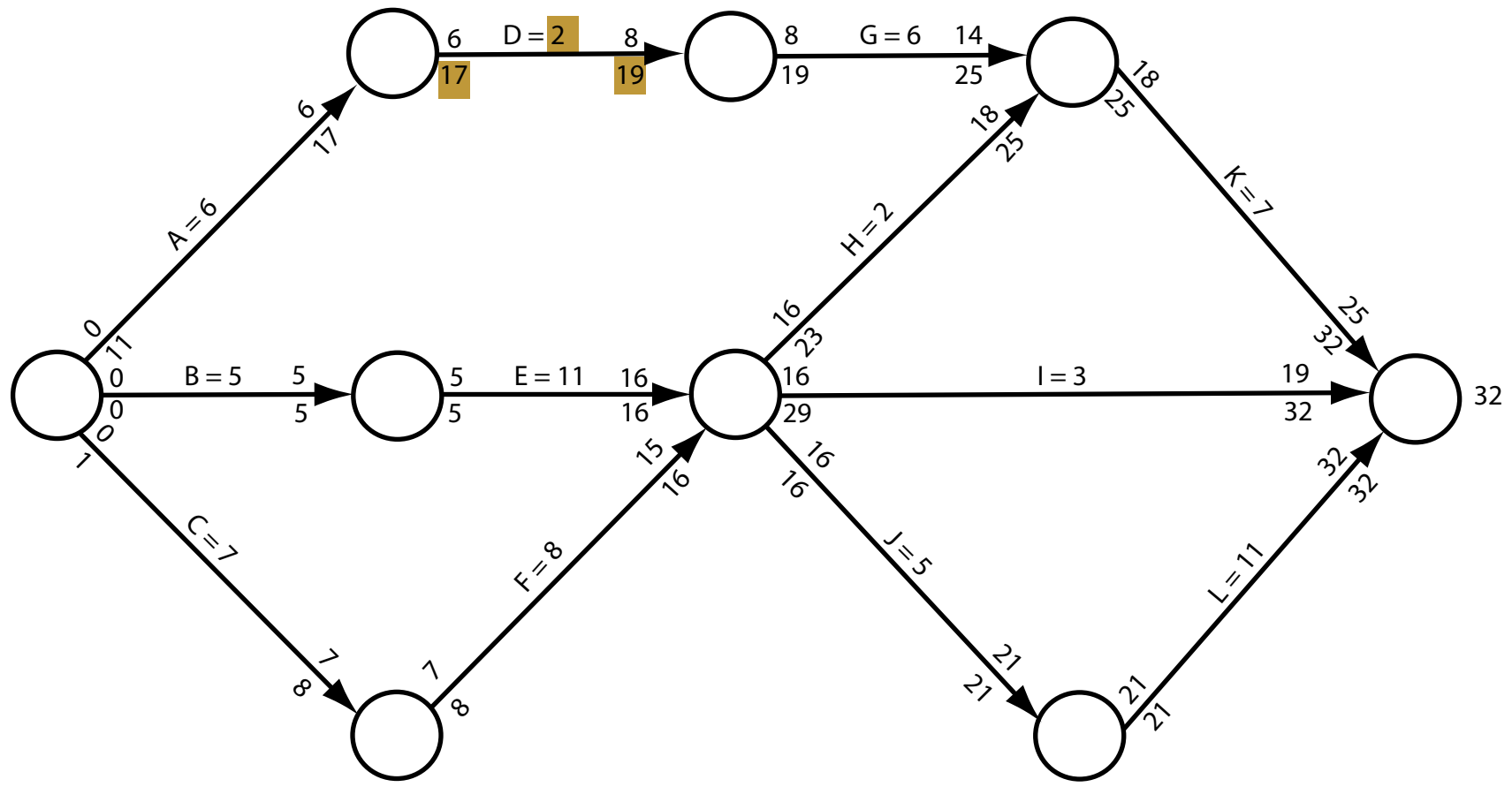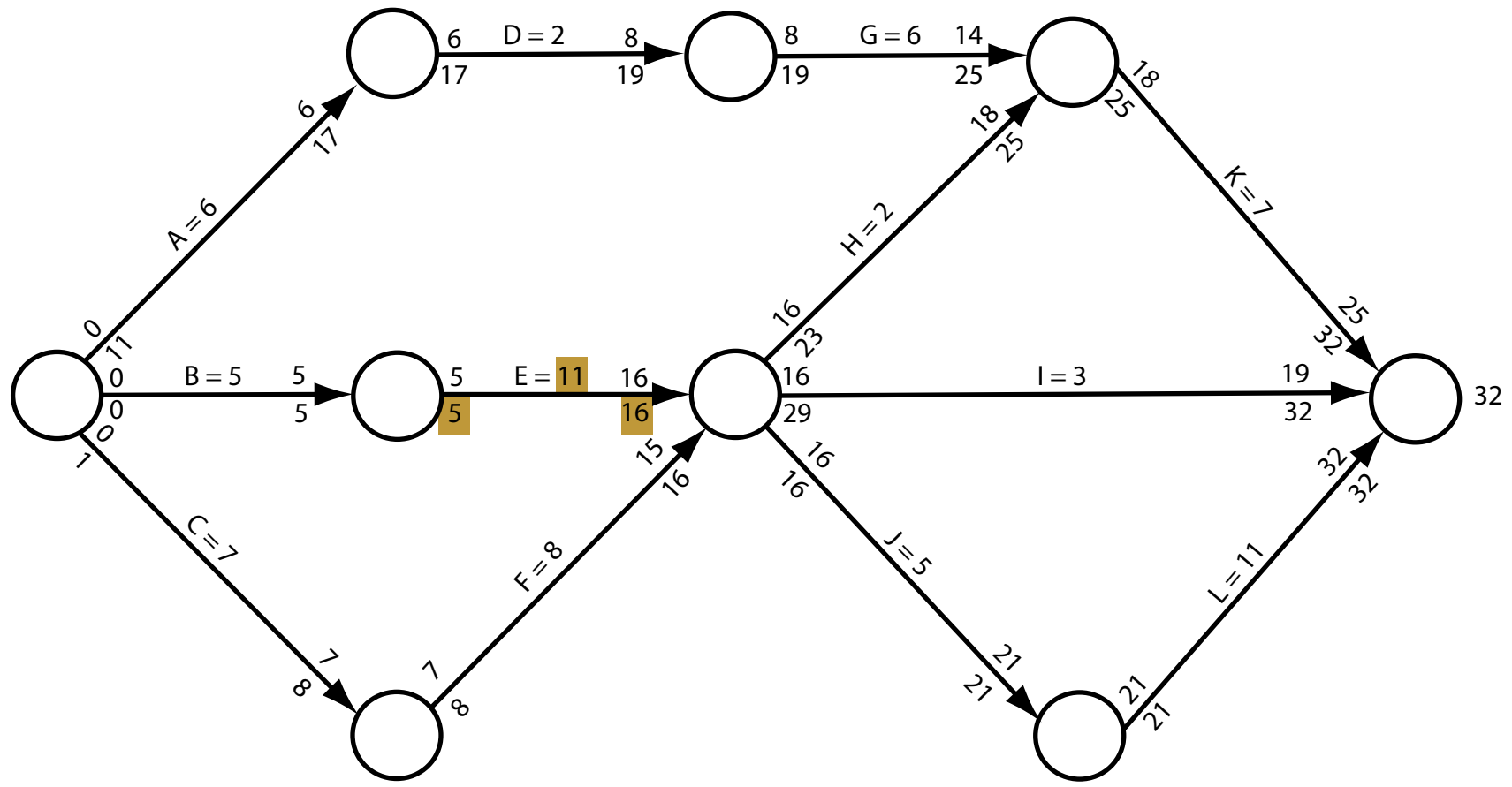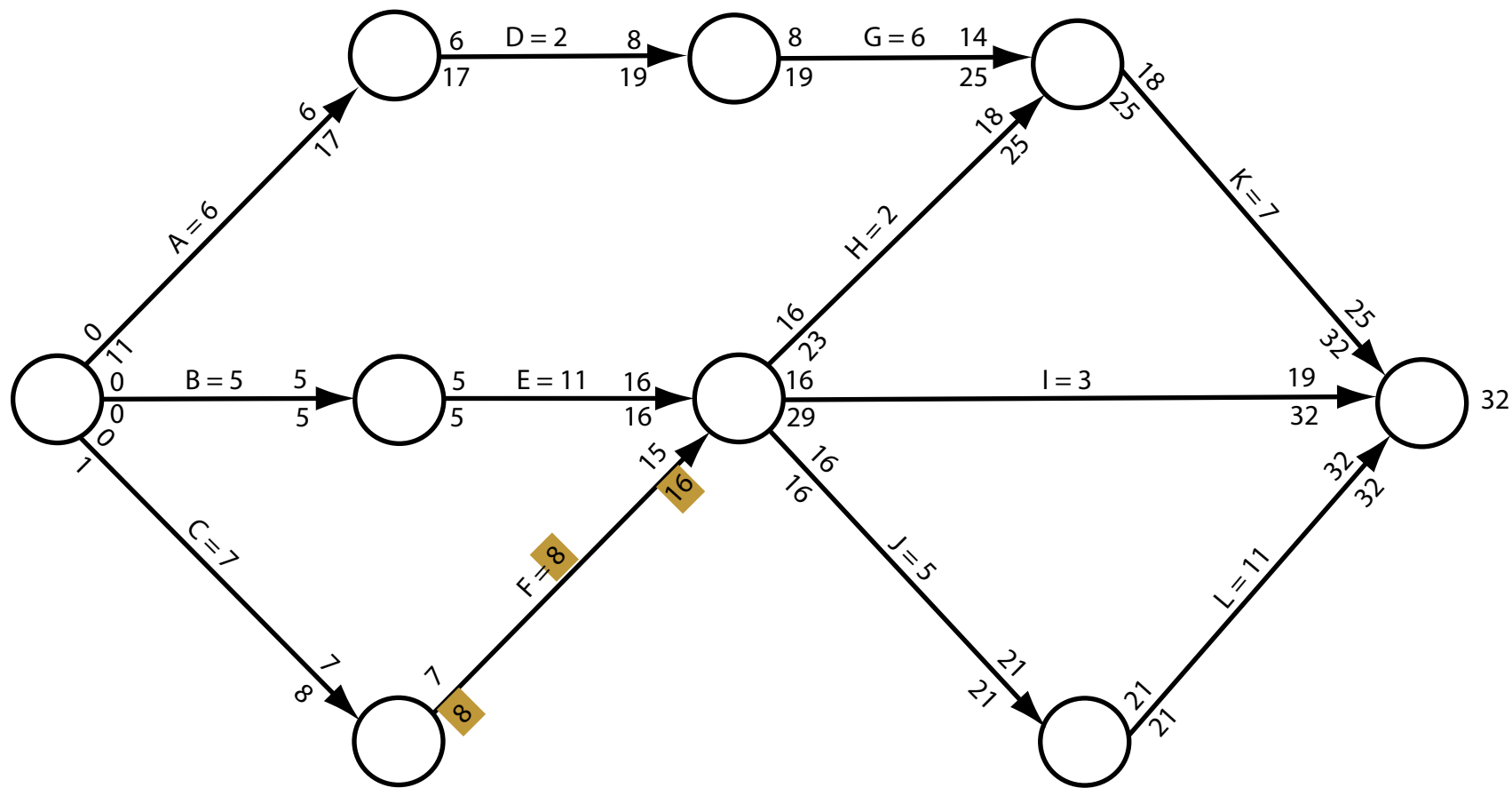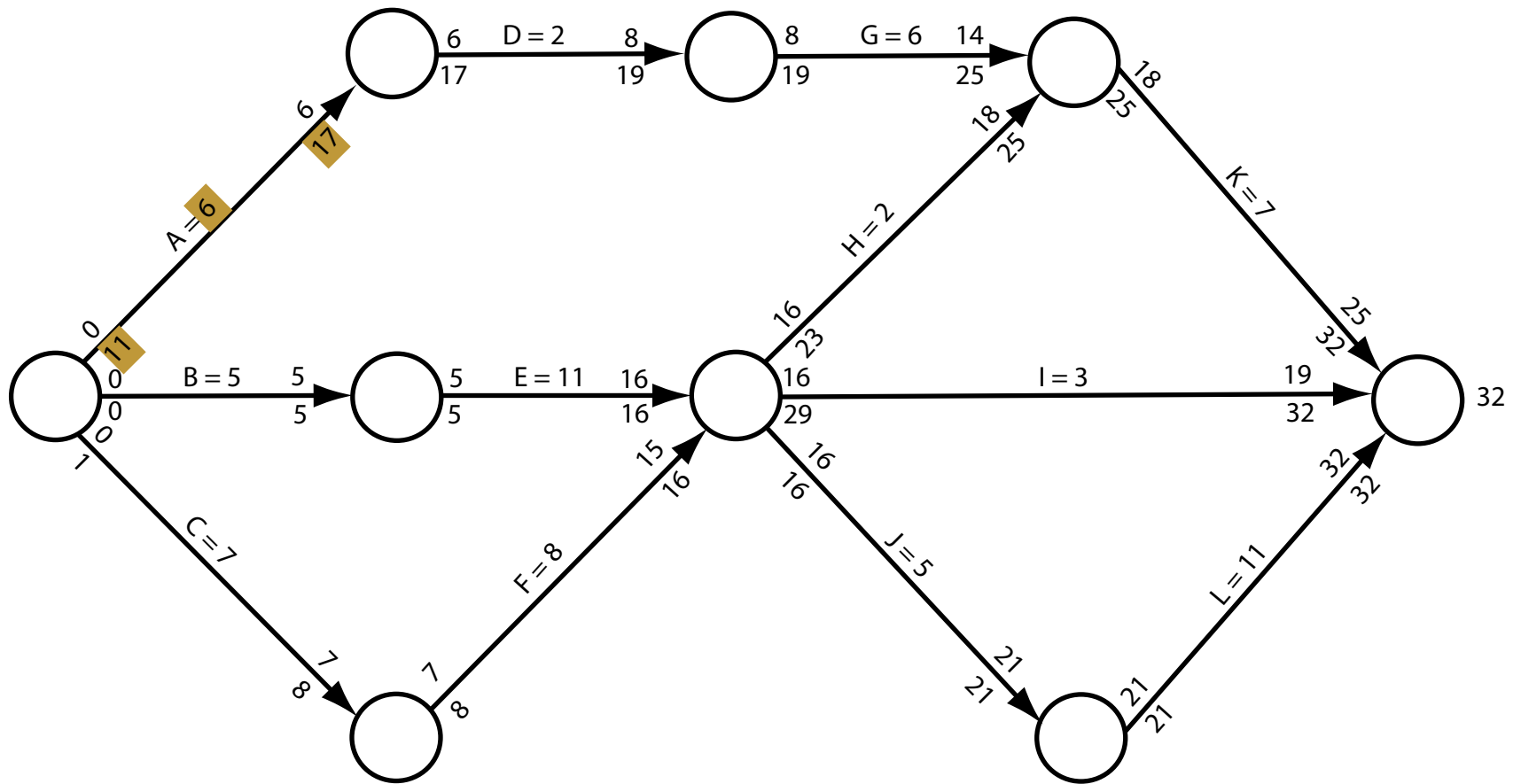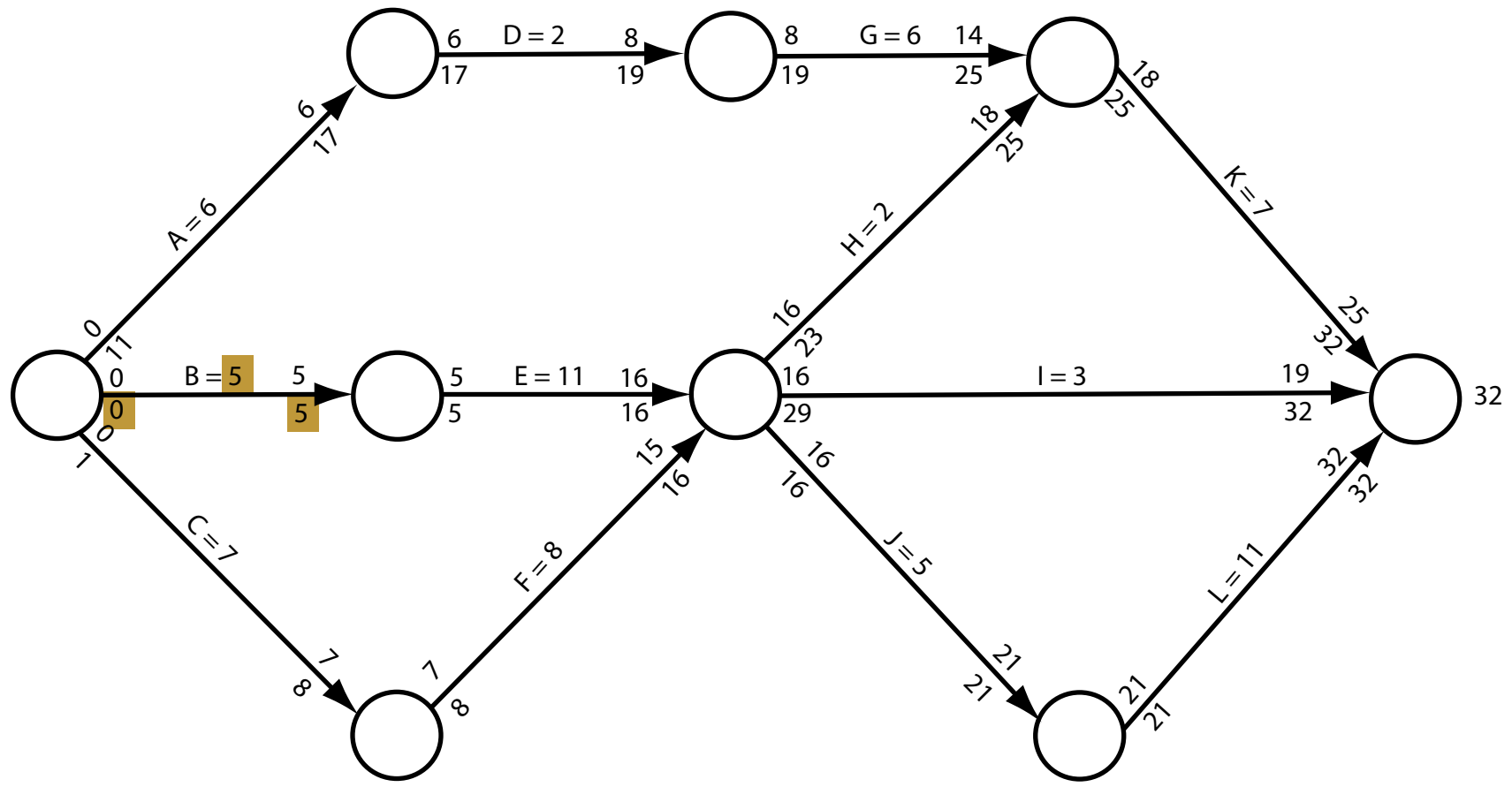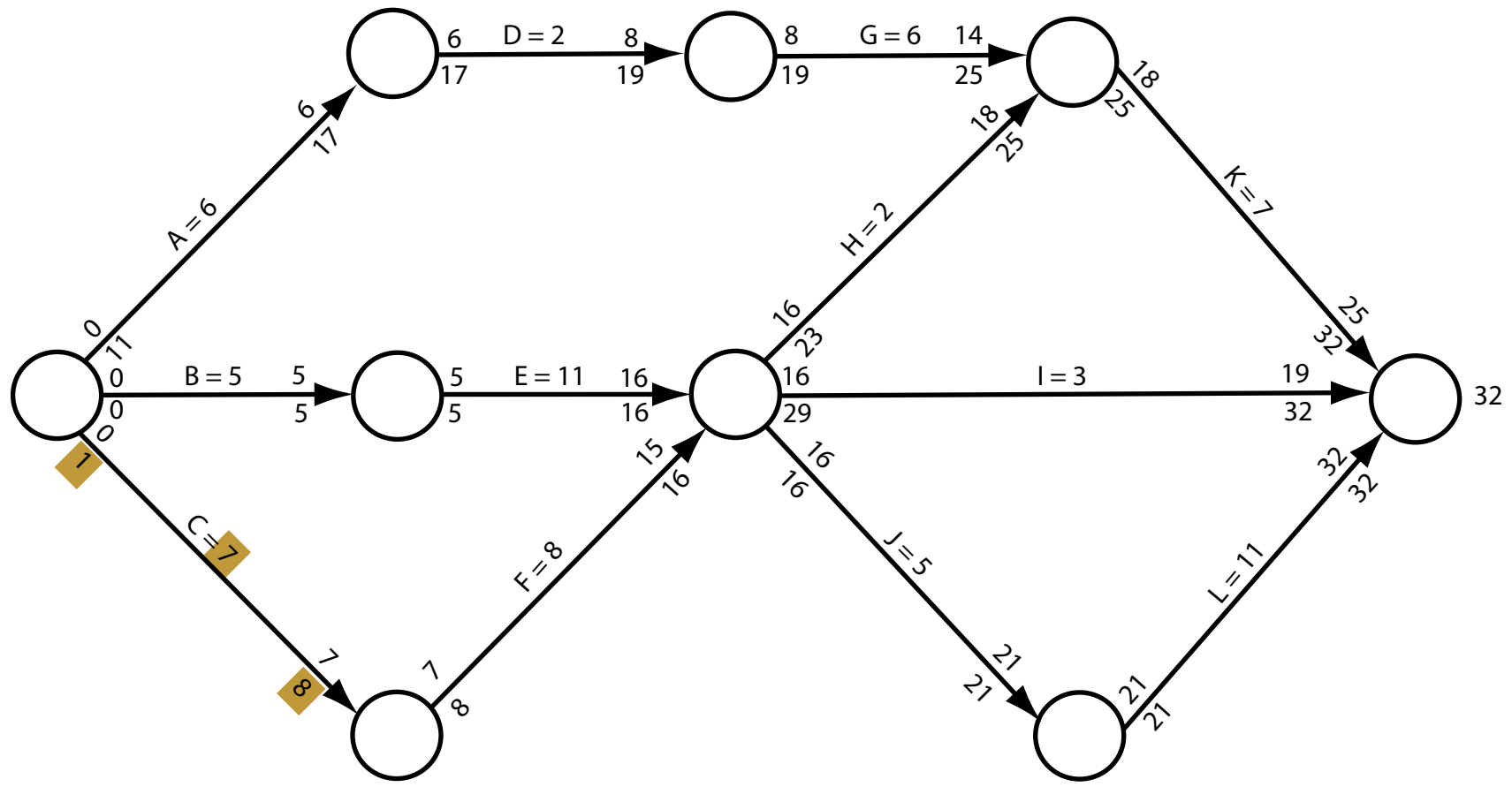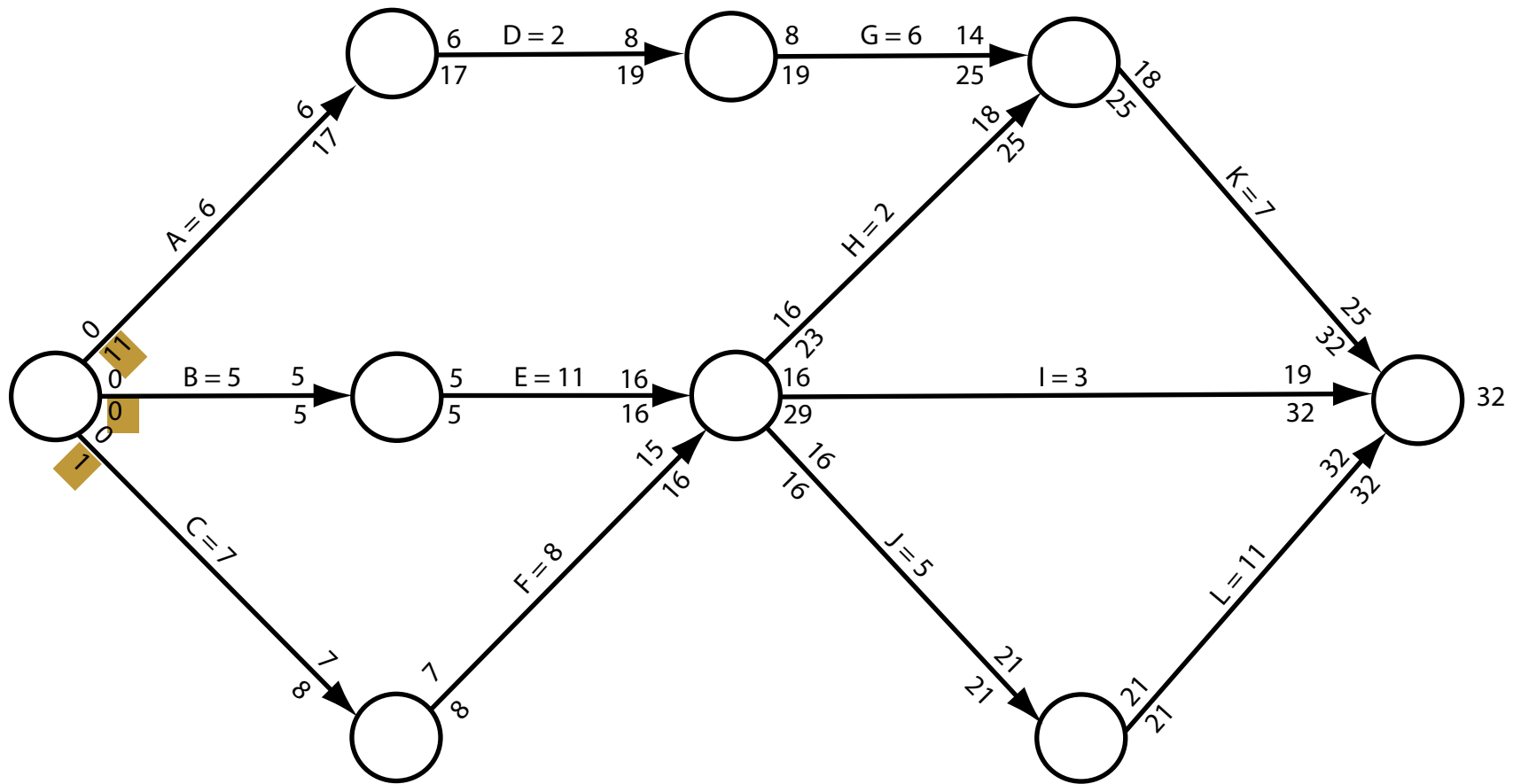
EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - BACKWARD PASS

EXERCISE 1 - SLACK

EXERCISE 1 - CRITICAL PATH

Node/edge labels:

- A = 6, B = 5, C = 7, D = 2, E = 11, F = 8, G = 6, H = 2, I = 3, J = 5, K = 7, L = 11

Numbers around nodes:
- 6 / 17, D = 2, 8 / 19, G = 6, 14 / 25
- 6 / 17 (A = 6)
- 0 / 11, 0, 0 / 1
- B = 5, 5 / 5, E = 11, 16 / 16
- 8 / 25, 18 / 25, K = 7
- 16 / 23, 16 / 29, H = 2, 18 / 25
- I = 3, 19 / 32
- 15 / 16, 16 / 16
- C = 7, 7 / 8, 7 / 8, F = 8
- J = 5, 21 / 21, 21 / 21, L = 11, 32 / 32
- 25 / 32
- 32

EXERCISE 2

Spoiler Warning

Solution to Exercise 2 Follows
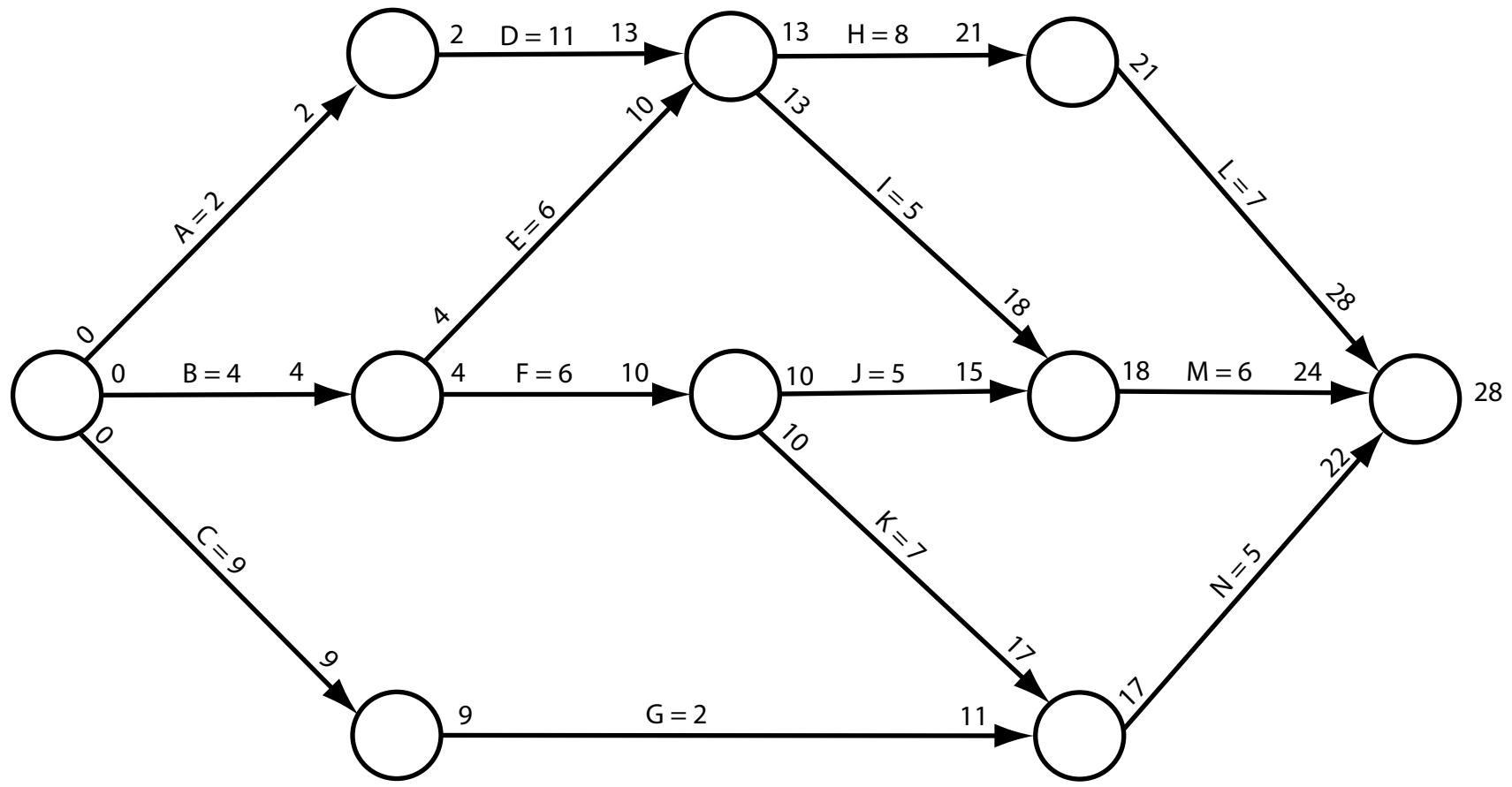
EXERCISE 2 - FORWARD PASS

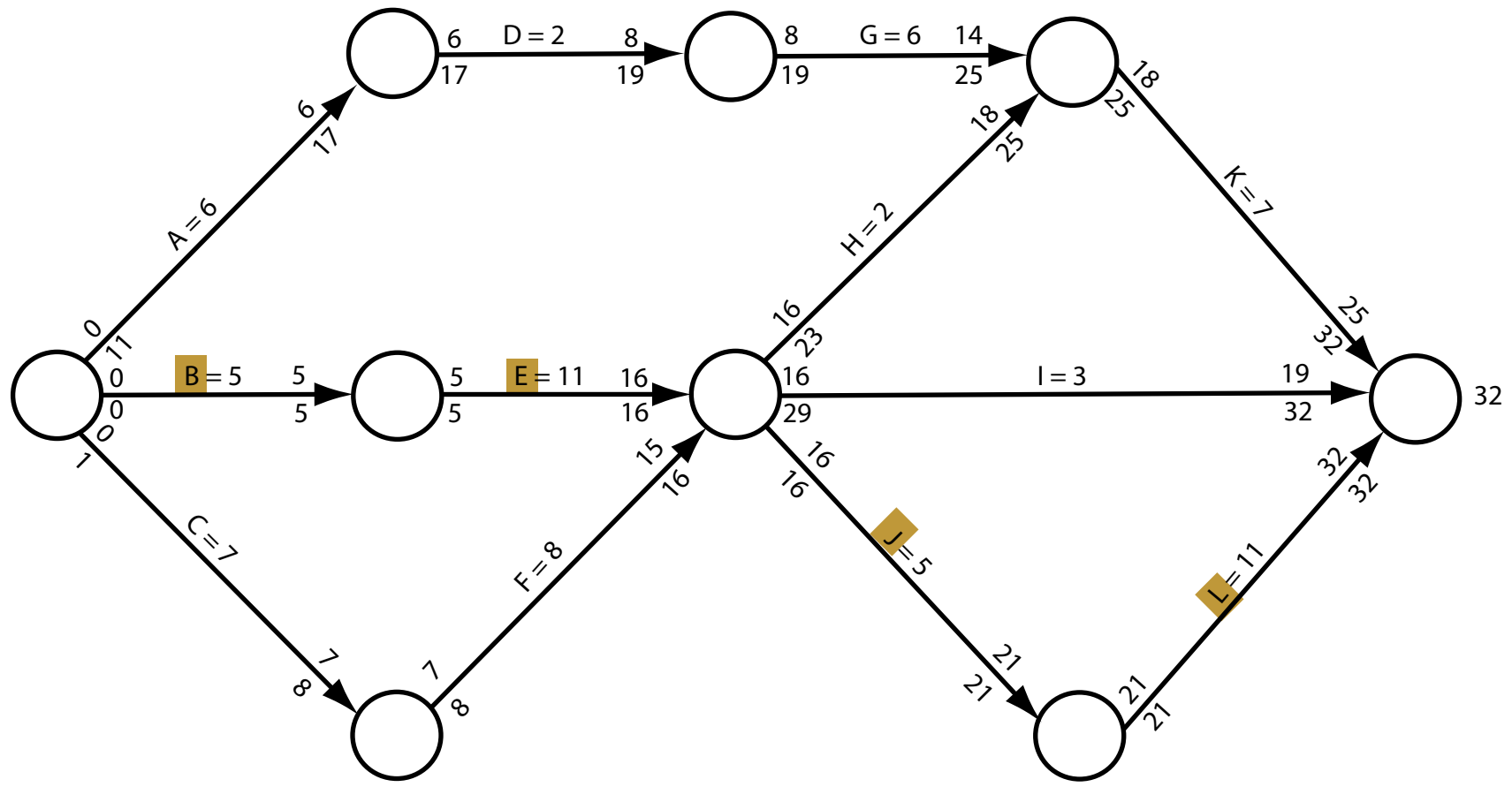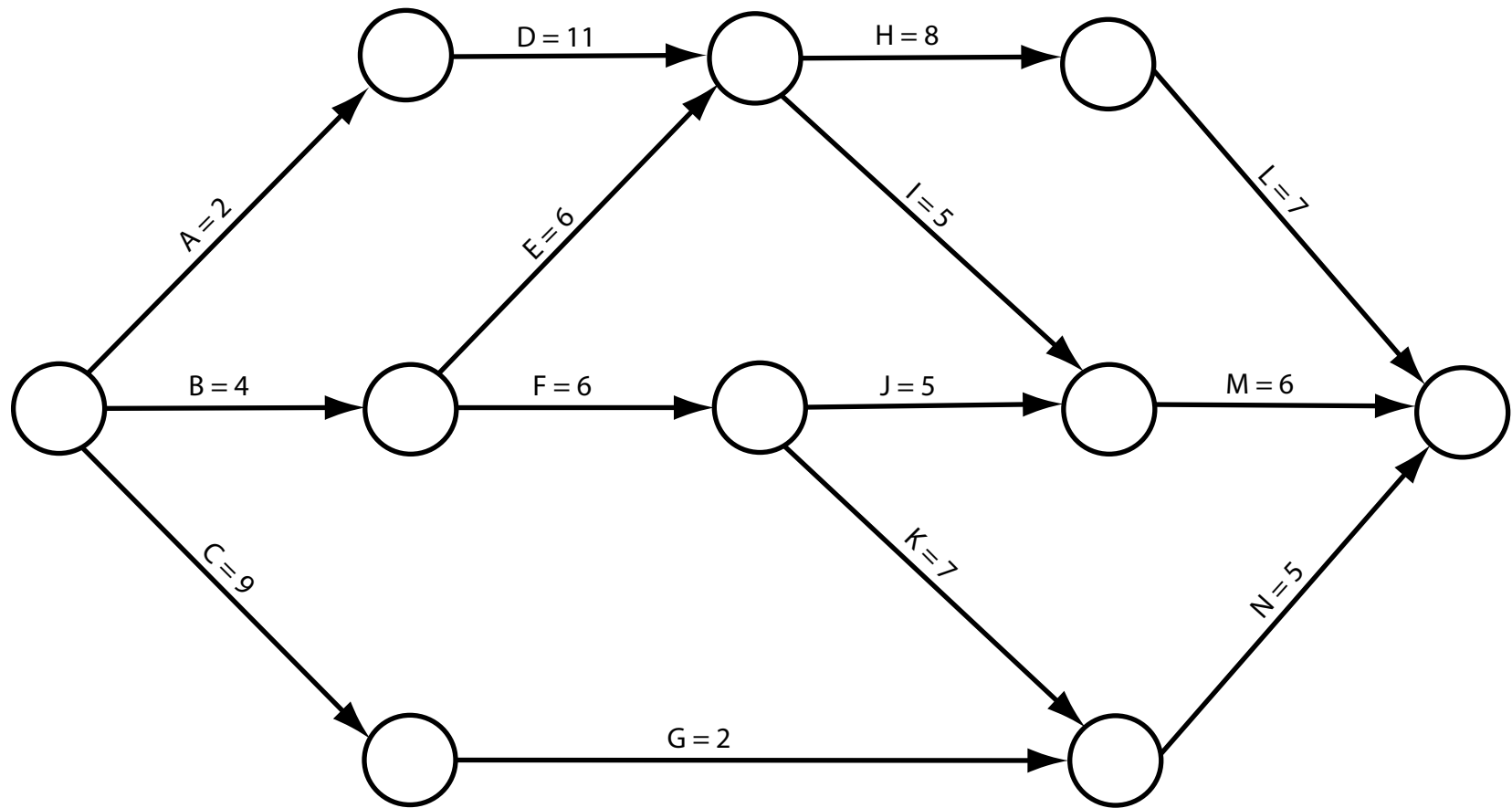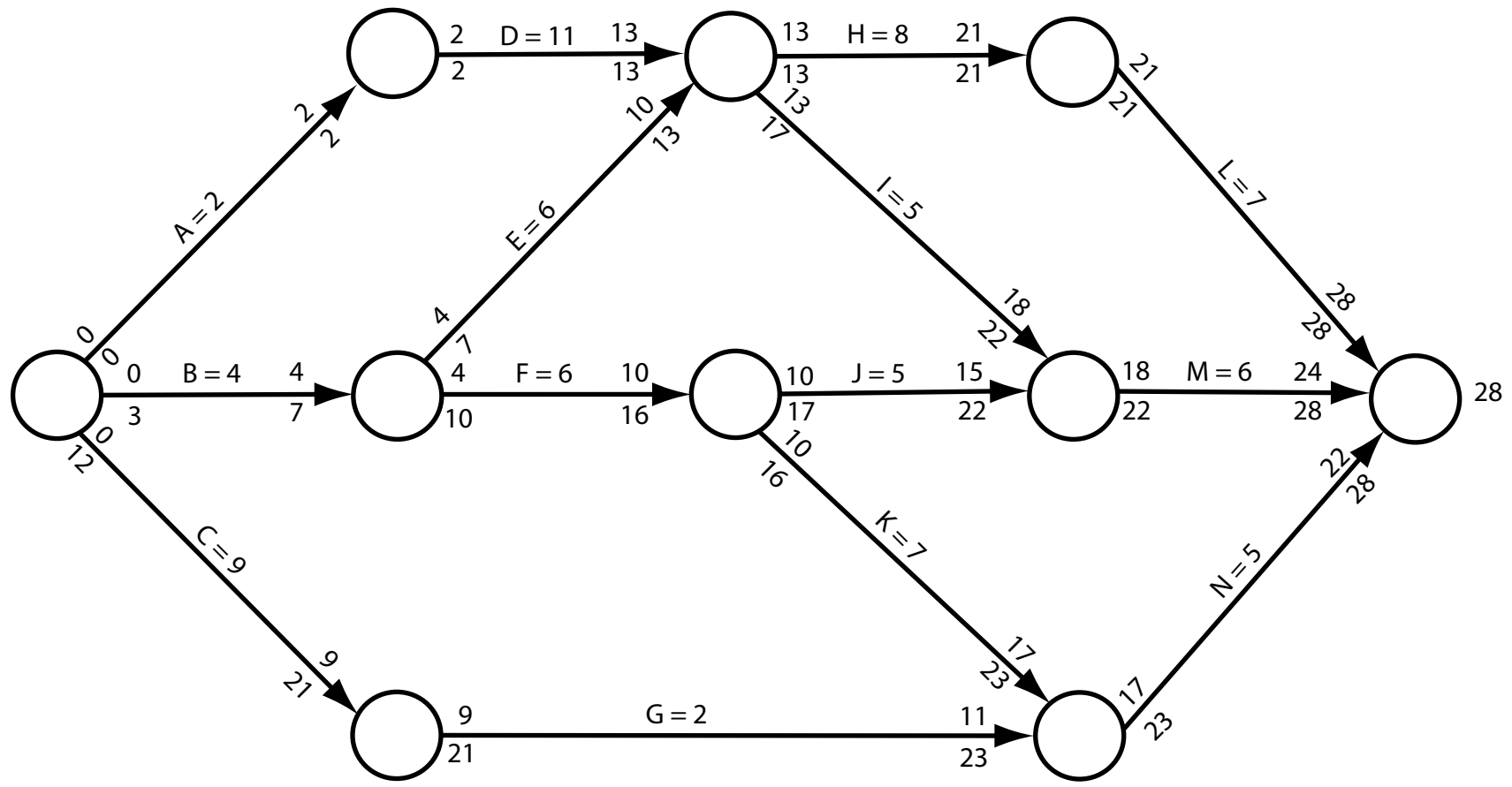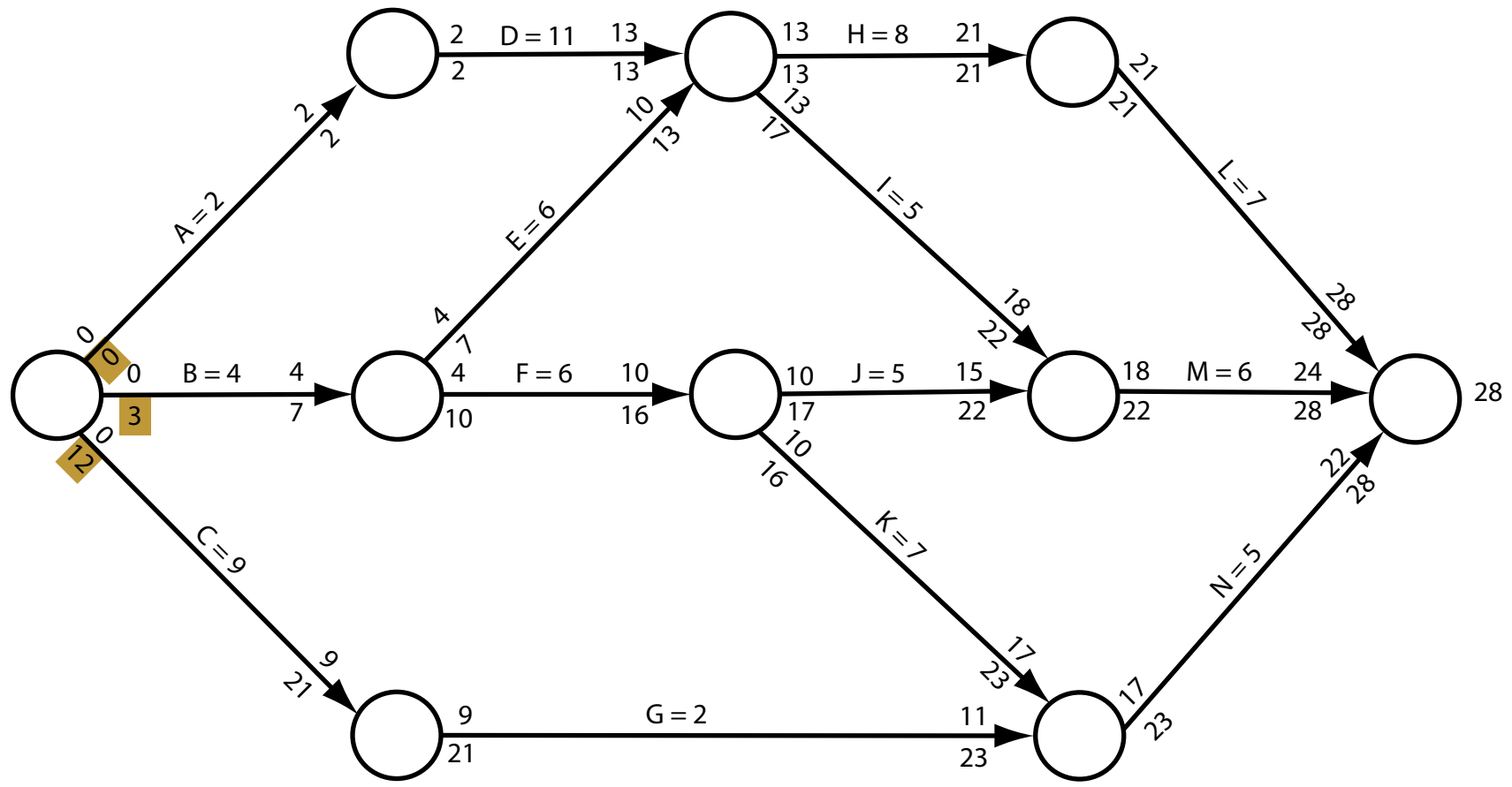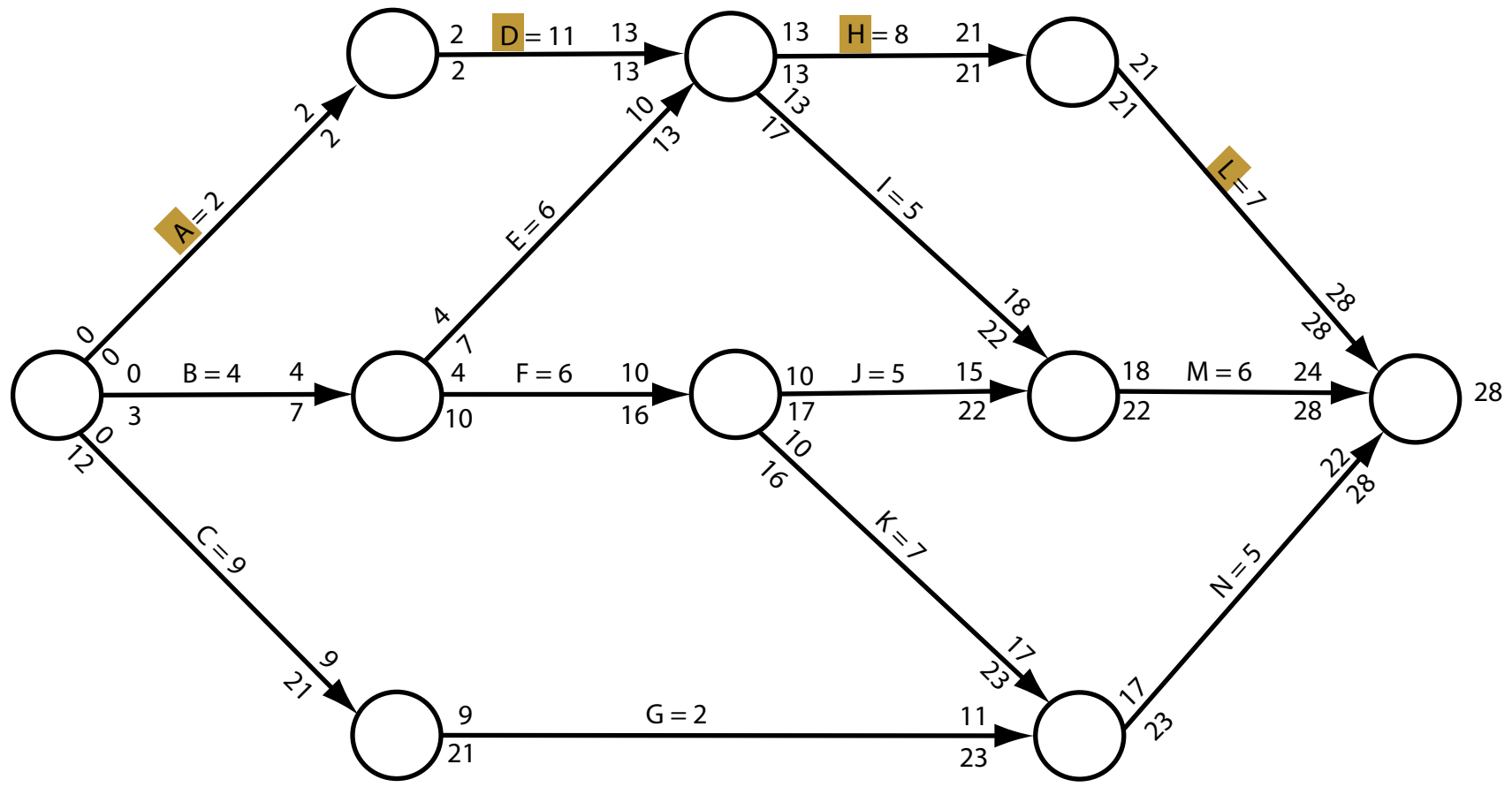# EXERCISE 2 - BACKWARD PASS

EXERCISE 2 - Slack

EXERCISE 2 - Critical Path