Problem - Task

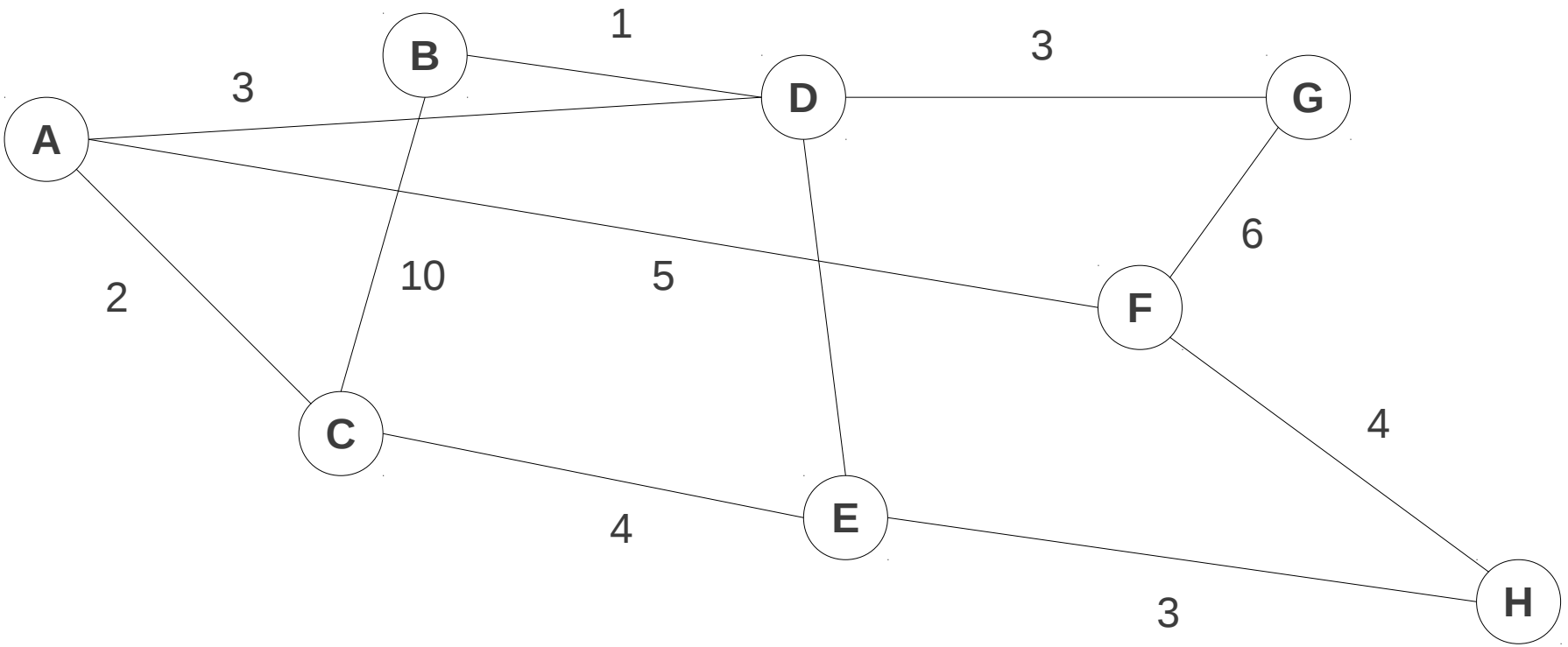
4 + (10 * 5) = ?

Organize the following list of natural numbers in ascending order: 31, 4, 1, 12, 10, 52, 33, 48, 1, 7

Write down: “Hello World!”

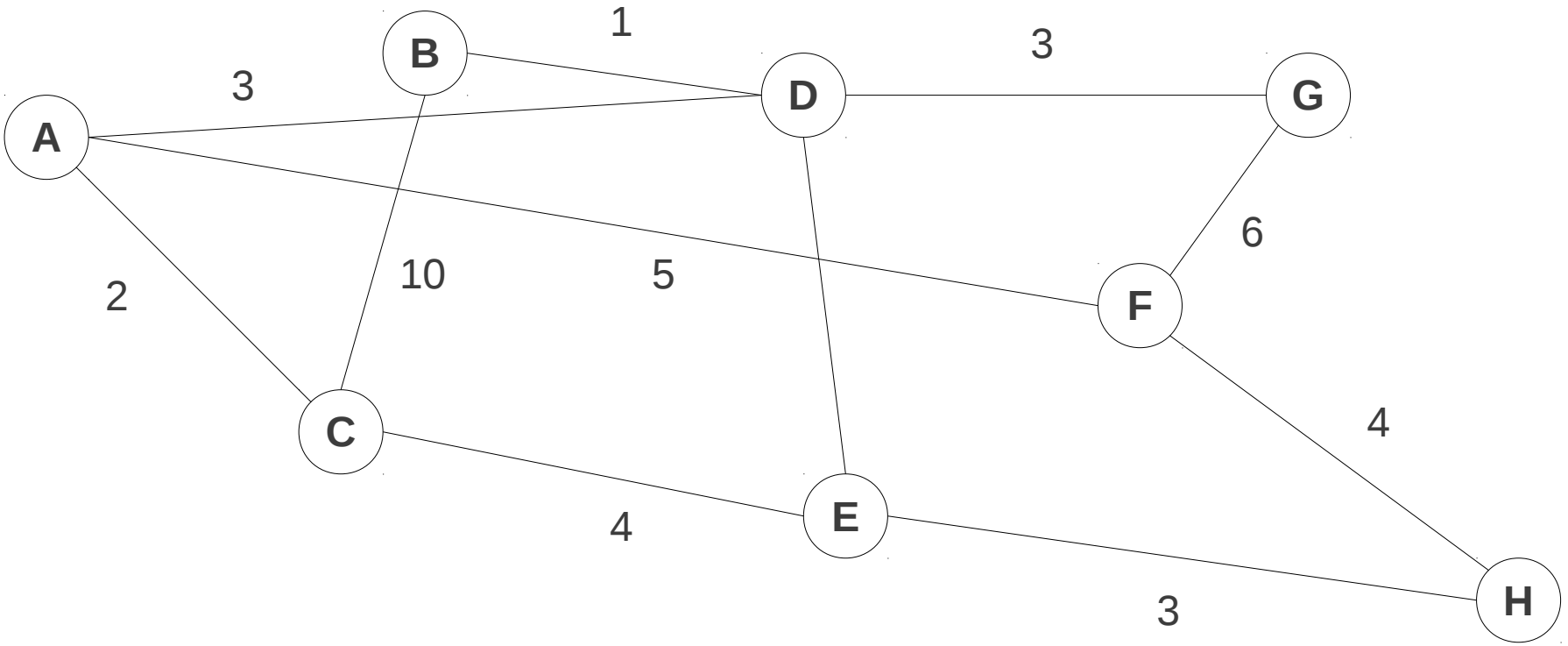
Problem - Task

Find the shortest path from A to G, from B to F and from C to G:



Problem 4 – reformulation/solution

Find the shortest path from A to G, from B to F and from C to G:



Define the procedure (DfS, BfS)

Problem 1 – reformulation/solution

4 + (10 * 5) = ?

Means:

a) number 1

b) succ(x) = x + 1 (successor function)

c) add(x, y) = x + y (addition function)

d) mul(x, y) = x * y (multiplication function)

Problem 2 – reformulation/solution

Organize the following list of natural numbers in ascending order: 31, 4, 1, 12, 10, 52, 33, 48, 1, 7

Means:

a) Array[_, _, _, _, _, _, _, _, _, _]

b) comp(x, y) = x (if x < y) OR y (if x > y)

Problem 3 – reformulation/solution

Write down: “Hello World!”

Means I:

JAVA programming language

Means II:

ASCII

Important Concepts

Problem, task - solution

Algorithm

Computer program

- Source code
- Binary code