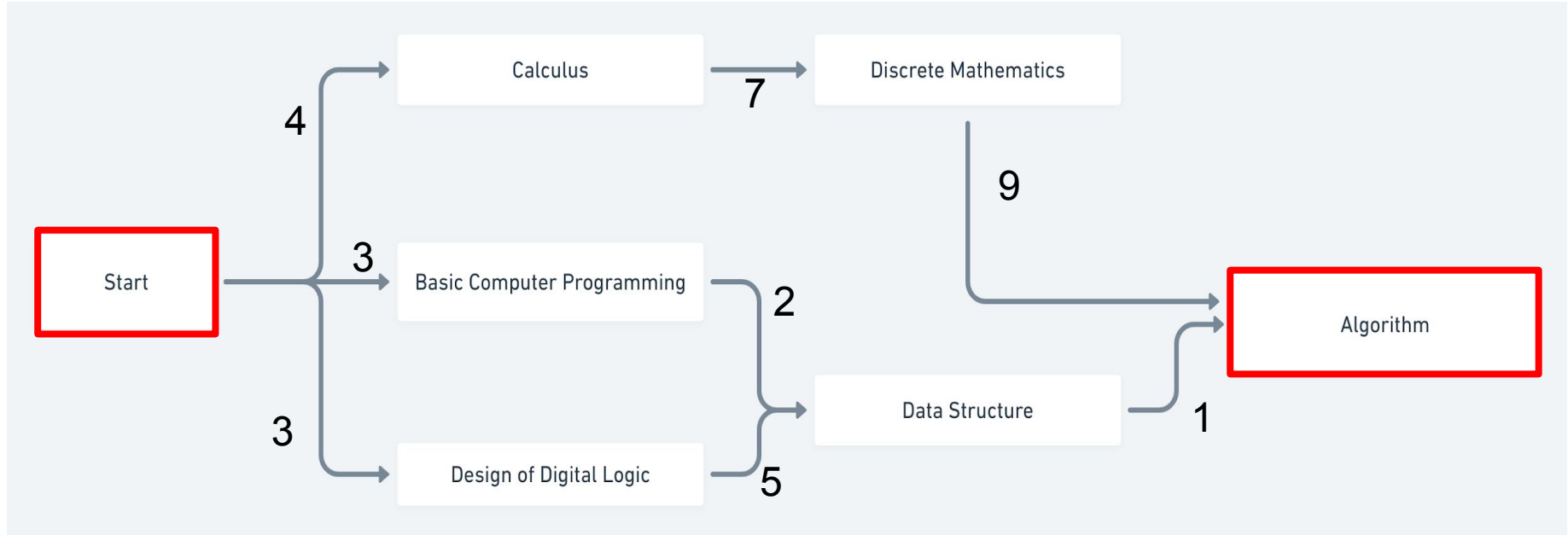


MinCost to take the Course

Description

From every course, the effort you need spend is different. The different order you took the course. Will affect the effort you need for the next course. For example: If you took “Basic Computer Programming” before, the effort you need to spend for “Data Structure” is 2.

Find the path with the minimal effort need to spend. To apply for the target course.



Sample Input

5 5

A

E

A B 3

A C 6

B D 4

C E 5

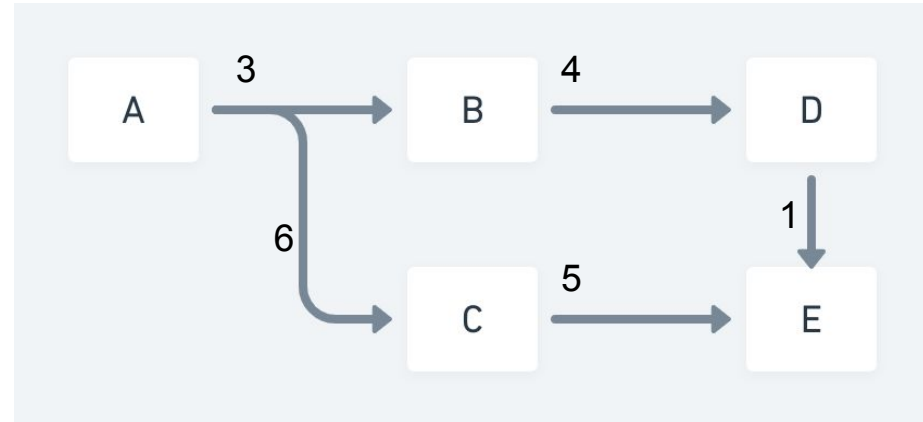
D E 1

← Total Numbers of course, And number of relations

← the course you are taking now

← the target course you want to take

Notice that the course will start from A. For example, if there exist 4 courses they will be course (A B C D)



Sample Output

8

A B D E

← Total effort you need to spend

← The path

