Java Test Task for Students

DB Best Technologies

Thanks for your interest in the DB Best internship program.

Description

Let us consider a water pipeline system. We use three parameters to describe it: starting point id, endpoint id, and pipe length.

Your goal is to create a Java application which answers the following questions:

1) Does the route between two points (id-A and id-B) exist?
2) If the answer is yes, then calculate the minimal route length between id-A and id-B.

Input

A CSV file that describes the water pipeline system. This file looks as follows:	A CSV file with a set of points, between which you need to find the route. This file looks as follows:
IDX;IDY;LENGTH 1;2;10 2;3;20 3;4;30 3;5;15 6;7;20	IDA;IDB 2;5 2;6 6;7

Output

For these two input files, we expect your application to generate the following output CSV file:

ROUTE EXISTS;MIN LENGTH

TRUE;35

FALSE;

TRUE;20

Requirements

1) Your application should upload the file that describes the water pipeline system. Load it into an H2 database.
2) Also, the application should upload the file with a set of points.
3) You may utilize JavaFX to create the application's UI or leverage the CLI (command-line interface).
4) You need to create a readme.txt file. This file should explicitly describe how your app works.
5) Software have to support JDK 11.