

## MASTERCARD CODE CHALLENGE

You're asked to write a program using Spring Boot & Java (1.8 or above) which determines if two cities are connected. Two cities are considered connected if there's a series of roads that can be traveled from one city to another.

List of roads is available in a file. The file contains a list of city pairs (one pair per line, comma separated), which indicates that there's a road between those cities.

It will be deployed as a **Spring Boot App** and expose one endpoint:  
<http://localhost:8080/connected?origin=city1&destination=city2>

Your program should respond with 'yes' if city1 is connected to city2, 'no' if city1 is not connected to city2.  
Any unexpected input should result in a 'no' response.

### For Example:

city.txt content is:

Boston, New York

Philadelphia, Newark

Newark, Boston

Trenton, Albany

<http://localhost:8080/connected?origin=Boston&destination=Newark>

Should return yes

<http://localhost:8080/connected?origin=Boston&destination=Philadelphia>

Should return yes

<http://localhost:8080/connected?origin=Philadelphia&destination=Albany>

Should return no

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### IMPORTANT

- This exercise is a take-home assignment.
- Use Github as a repository for your solution. The completed assignment should be emailed back to myself in the form of the Github URL.
- This challenge needs to be completed within 1-3 days from the Date/Time of your first commit.
- Impress us with:
  - A well-documented project that utilizes various best practices.
  - Well-written Unit Tests (**which need to pass**) & comprehensive test coverage.