Step Four

<div style="border:1px solid #000; display:inline-block; text-align:center; padding:8px;">1
point</div>

1.

In the class FourthRatings, which one of the following is a correct replacement for the line

```
1   for (Rater r: myRaters){
```

that came from the file ThirdRatings but now should use the RaterDatabase class.

○
```
1   for (Rater r: RaterDatabase.initialize()){
```

○
```
1   for (Rater r: initialize()){
```

○
```
1   for (Rater r: RaterDatabase.getRater()){
```

○
```
1   for (Rater r: getRaters()){
```

○
```
1   for (Rater r: getRater()){
```

◉
```
1   for (Rater r: RaterDatabase.getRaters()){
```

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2.

In the method **printAverageRatings** in the Class MovieRunnerSimilarRatings, assume the name of the **FourthRatings** object is named runner. Which one of the following is a correct way to print out the number of raters in the **RaterDatabase**?

○
```
1   System.out.println("read data for" + size() + "raters");
```

○
```
1   System.out.println("read data for" + runner.size() + "rater");
```

◉
```
1   System.out.println("read data for" + RaterDatabase.size() + "raters");
```

○
```
1   System.out.println("read data for" + RaterDatabase.runner..size() +
        "raters");
```

3.
Consider that the following ratings exist

```
1   Rater ID      MovieID       Rating
2   15            2354          10
3   15            3285          6
4   15            1297          2
5   15            5804          8
6   20            3285          4
7   20            1297          7
8   20            6574          10
9   20            2354          9
```

Consider the method **dotProduct** in the FourthRatings class. What should the call
dotProduct("15", "20") return?

14

1

point

4.
Consider that the following ratings exist

```
1   RaterID       MovieID       Rating
2   15            2354          10
3   15            3285          6
4   15            1297          2
5   15            5804          8
6   20            3285          4
7   20            1297          7
8   20            6574          10
9   20            2354          9
```

For rater 30, we have calculated similarity ratings with these two raters:

```
1   RaterID,   Similarity with Rater 30
2   15,        7.0
3   20,        30.0
```

Assuming these are the only raters who rated movie 3285, what is the weighted average rating
for the movie with ID 3285?

81

1

point

5.
Which one of the following statements is true about the FourthRatings class where the changes
suggested are the only changes made and the program works as it did before after the change?

- ◉ The method **getSimilarRatings** can be written with just one line of code that calls the
  method **getSimilarRatingsByFilter**.

- ◯ The method **getSimilarRatings** can be written with just one line of code that calls the
  method **getSimilarities** passing an ArrayList of rater ids instead of one id.

- ◯

The method **getSimilarRatings** can be written with just one line of code that returns the result of the call to the method **getSimilarities** passing an ArrayList of rater ids instead of one id

◯ The method **getSimilarRatings** can be written with just one line of code that returns the result of a call to **getSimilarRatingsByFilter**.

1
point

6.

Run the **printSimilarRatings** method in the MovieRunnerSimilarRatings class using the files **ratedmoviesfull.csv** and **ratings.csv** and the rater id 337, the number of minimal raters to 3 and the number of top similar raters set to 10. What is the movie with the top rated average?

Frozen

1
point

7.

Run the **printSimilarRatingsByGenre** method in the MovieRunnerSimilarRatings class using the files **ratedmoviesfull.csv** and **ratings.csv** and the rater id 964, the genre "Mystery", the number of minimal raters to 5 and the number of top similar raters set to 20. What is the movie with the top rated average?

Gone Girl

1
point

8.

Run the **printSimilarRatings** method in the MovieRunnerSimilarRatings class using the files **ratedmoviesfull.csv** and **ratings.csv** and the rater id 71, the number of minimal raters to 5 and the number of top similar raters set to 20. What is the movie with the top rated average?

About Time

1
point

9.

Run the **printSimilarRatingsByDirector** method in the MovieRunnerSimilarRatings class using the files **ratedmoviesfull.csv** and **ratings.csv** and the rater id 120, the directors "Clint Eastwood,J.J. Abrams,Alfred Hitchcock,Sydney Pollack,David Cronenberg,Oliver Stone,Mike Leigh", the number of minimal raters to 2 and the number of top similar raters set to 10. What is the movie with the top rated average?

Star Trek

10.

Run the **printSimilarRatingsByGenreAndMinutes** method in the MovieRunnerSimilarRatings class using the files **ratedmoviesfull.csv** and **ratings.csv** and the rater id 168, the genre Drama, the length of the movie between 80 and 160 inclusive, the number of minimal raters to 3 and the number of top similar raters set to 10. What is the movie with the top rated average?

The Imitation Game

11.

Run the **printSimilarRatingsByYearAfterAndMinutes** method in the MovieRunnerSimilarRatings class using the files **ratedmoviesfull.csv** and **ratings.csv** and the rater id 314, the year 1975, the length of the movie between 70 and 200 inclusive, the number of minimal raters to 5 and the number of top similar raters set to 10. What is the movie with the top rated average?

Nightcrawler

✔ I, **Suhaib Aslam**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.
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