



DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE

ENGINEERING

SOEN 6441, Fall 2019

RISK Game (Build-2)

Refactoring

Submitted To: JABABO KHALED

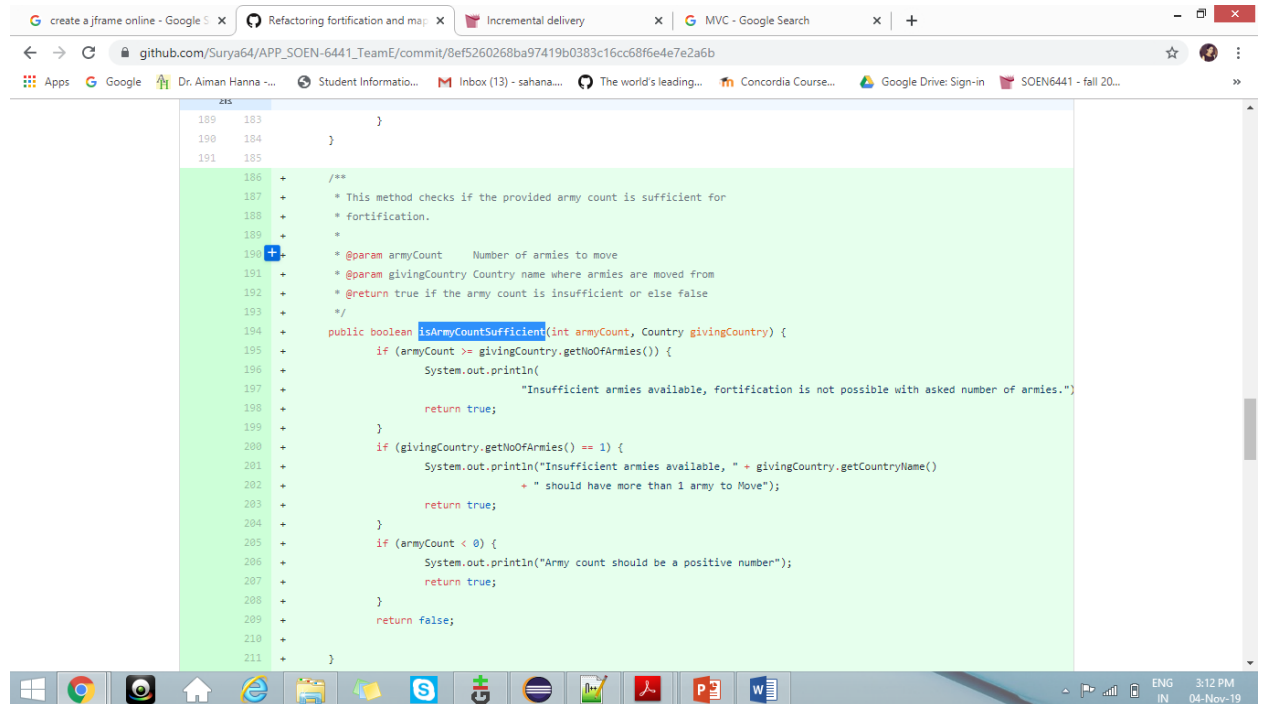
Submitted By: **Team E**

Git URL: https://github.com/Surya64/APP_SOEN-6441_TeamE

Sr. No.	Name	Student ID
1	Surya Prakash Govindaraju	40085527
2	Shruthi Kondapura Venkataiah	40091427
3	Sahana Anantha	40085533
4	Sai Charan Teja Doddi	40076338
5	Dolly Modha	40084358

1. FortificationPhase.java

Created new method `isArmyCountSufficient` as there was checking multiple conditions for army count and returning false.



```
189 183    }
190 184    }
191 185
285
186 +    /**
187 +     * This method checks if the provided army count is sufficient for
188 +     * fortification.
189 +     *
190 +     * @param armyCount    Number of armies to move
191 +     * @param givingCountry Country name where armies are moved from
192 +     * @return true if the army count is insufficient or else false
193 +     */
194 +    public boolean isArmyCountSufficient(int armyCount, Country givingCountry) {
195 +        if (armyCount >= givingCountry.getNoOfArmies()) {
196 +            System.out.println(
197 +                "Insufficient armies available, fortification is not possible with asked number of armies."
198 +            );
199 +            return true;
200 +        }
201 +        if (givingCountry.getNoOfArmies() == 1) {
202 +            System.out.println("Insufficient armies available, " + givingCountry.getCountryName()
203 +                + " should have more than 1 army to Move");
204 +            return true;
205 +        }
206 +        if (armyCount < 0) {
207 +            System.out.println("Army count should be a positive number");
208 +            return true;
209 +        }
210 +        return false;
211 +    }
```

2. StartupPhase.java

2.1 Placeall method is created which is called twice in the game play phase and hence duplicate code is removed.

2.2 New `playerCreation` method is created.

3. MapOperation.java

`MultiCommand` method is optimized to two cases instead of three, as `editcountry` and `editcontinent` take the same number of arguments.