



DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE

ENGINEERING

SOEN 6441, Fall 2019

RISK Game (Build-3)

Refactoring

Submitted To: JABABO KHALED

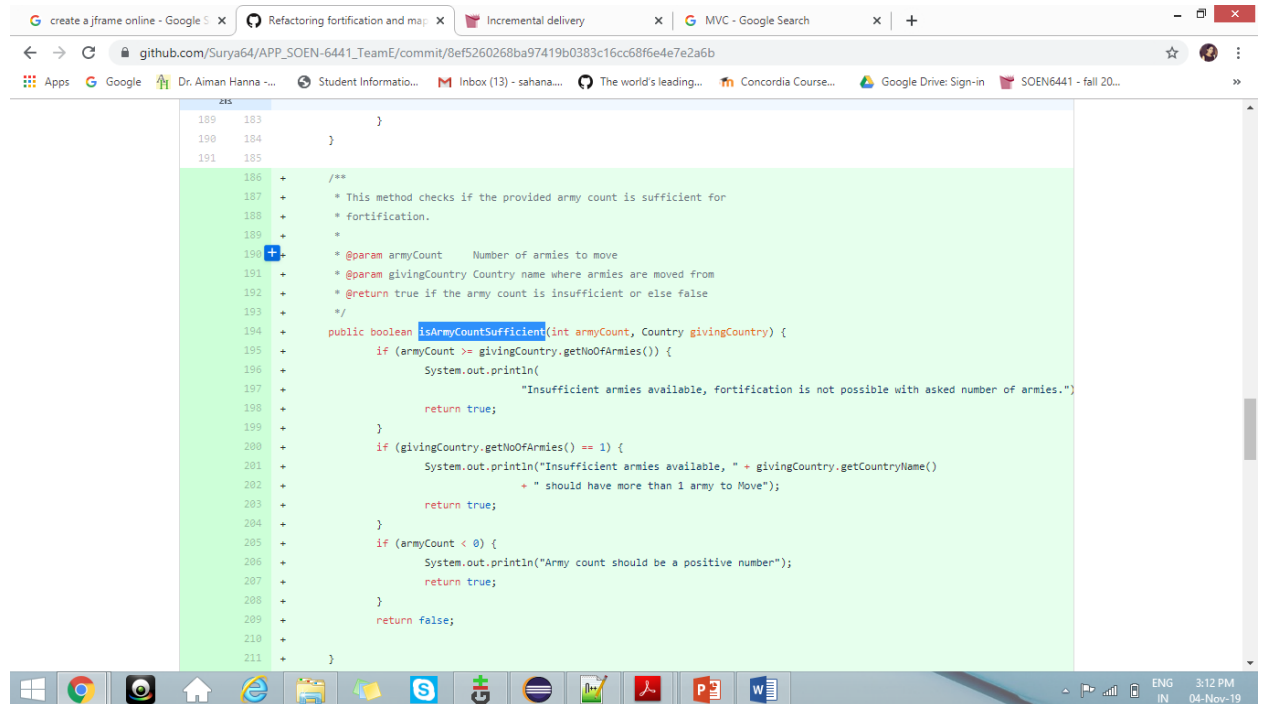
Submitted By: **Team E**

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

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

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.