**Q3 compare number**

Description:

Compare the number guessed by the app and the user’s response. The app would have different replies according to the user’s response.

Precondition:

1. The guesser app should exist
2. The guesser should have been setup
3. The guesser should have a time counter
4. The app should have guessed a number
5. The app should have an upper limit
6. The app should have a lower limit
7. The user should have given the response

Main flow:

The user’s response is “Correct!”

1. The time counter adds 1
2. The app’s reply is the times it takes

Alternative flow:

A1. The user response is “Try Higher”

1. The time counter adds 1
2. The app adjusts its lower limit to the guess number plus 1
3. The app recalculates the guess number
4. The app’s reply is the new guess number

A2. The user response is “Try Lower”

1. The time counter adds 1
2. The app adjusts its higher limit to the guess number minus 1
3. The app recalculates the guess number
4. The app’s reply is the new guess number

Exception:

E1. The user lies to the app

1. The app’s reply is “you lie!”

Post-condition:

The app displays its reply