Bugs:

When running my card tests with my bugs I got Segmentation faults. When running without my bugs, there were no errors. I found no bugs when running my unit tests. All tests were passed.

Unit Testing:

After running Gcov, the coverage for my program was 21.29%. This of course

means that not all cases are covered, but nearly a quarter of them are. For most programs, this would not be ideal, and we would create more test cases

to try and increase the coverage. I tested some functions like getCost and isGameOver,

which aren't used all too often, so testing functions like discardCard or a more used

function would increase coverage easily.

Unit Testing Efforts:

-My first unit test tests whoseTurn. I create a gamestate, fill the Kingdom card slots,

initialize a game, and send an arbitrary number of requests to the gamestate to check

whose turn it is. Each time I check, I assert() whose turn it is, so if the turn

doesn't increment, then it will fail.

-My second unit test tests is ${\tt GameOver.}\ {\tt I}$ create a gamestate, fill the Kingdom card slots,

initialize a game, and set the number of provinces and other property cards to various $\ \ \,$

numbers to check if the game will end if there are no provinces left. It will fail if there $\,$

are properties left and the game tries to end.

-My third unit test tests $\operatorname{getCost}$. This one I simply called $\operatorname{getCost}$ on various cards to

determine if the function worked correctly. I did not need to create a gamestate or simulate a game.

-My fourth unit test tests buyCard. I create a gamestate, fill the Kingdom card slots,

initialize a game, and set the number of buys to various amounts and try to buy a card with $% \left(1\right) =\left(1\right) +\left(1\right)$

varying amounts of money. I tested having buy actions but no money, having no buy actions $\,$

and having money, and having both buy actions and money.