

# EE 491F — Midterm

Fall 2005

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This is a open book, open notes, open computer, closed neighbor exam. The exam will be done on-line on wiliki.

## 1. mini-Poker

We would like to build a collection of classes which might be useful for building card games, such as Hearts, Solitaire, or the ever popular Poker. Think about the classes that one would need to build a variety of card game applications. Think about the operations needed. Think about the data needed.

For the purposes of this exam, we will build just one simple card game application; Mini-Poker. In Mini-Poker, a player is dealt 5 cards from a shuffled deck of cards. If the player is dealt a straight flush, they win BIG. If they are dealt either a straight or a flush, they are doing pretty good; otherwise they lose.

I have provided you with the main() for this particular application in the file mpoker.cc. I have also provided a very sketchy skeleton of a collection of classes and some of their operations in the files `deck_cards.h`, `hand.handcard.handtheirassociated.cc` files. You can download a tar file containing

```
wget http://ee.hawaii.edu/~tep/EE467/F05/Gold/Midterm/cards.tar
tar xvf cards.tar
```

Which will expand the files into a directory called Cards. I have also provided (a modified) List class files we have used previously, and a makefile. The program should compile and run as is with the following commands:

```
make
mpoker
```

(but, of course does not play the real game). You may adapt/modify/fill in any of these files EXCEPT for mpoker.cc. At a minimum (a B on the exam), you should complete the implementation of these classes which will compile using the makefile and run the Mini-Poker game described above. Additional credit can be earned by modifying mpoker.cc as described in the comment in the file, and more credit for a complete, well designed, well implemented set of classes that could be used for an arbitrary card game.

When you are done, you should turn in ALL files needed to compile and run Mini-Poker using the following commands on wiliki:

```
make real_clean
grade -mtm,ee467 *.cc *.h makefile
```

Good luck :-)