## **Extra Credit 1 Report**

tags: class

## **My Pin Tool & Explanation**

First, I used

```
INS_AddInstrumentFunction(Instruction, 0);
```

to register a function I wrote called Instruction to instrument.

In the Instruction function, I inspect the instruction to see if the instruction is the cmp instruction that dictates whether we will execute the malicious section of the program. Once the instruction is found, I use INS\_InsertDirectJump and INS\_Delete to replace the comparison with a direct jump to the malicious code.

## What I Lerned

Although I learned conceptually how pin works in class, it still took me a long time to figure out how to use it to actually perform instrumentation. In the end, although my code and understanding were still rough on the edges, I managed to get my pintool to work. I also learned how to use IDA to analyze an executable.