Part 1 Documentation

Flag String: 34gdfh340234

Methodology to Bypass Authentication: For simple adjustments to print the flag string regardless of what username and password are input, I modified the comparisons to effectively make the validation checks for the username and password dysfunctional. Essentially, each code block (involving the user input) of the form

```
mov dl, [e?x] cmp dl, [e?x]
```

I made both '?' equal so the test compares each value to itself \rightarrow always true.

Therefore, I did not add or delete instructions, simply modify some of the register operands.

Instructions Changed: Format (Address: Original → New Instruction)

```
(004B10D5: mov dl, [eax] → move dl, [ecx])
(004B10DF: mov dl, [eax+1] → move dl, [ecx+1])
(004B1106: mov dl, [ecx] → mov dl, [eax])
(004B1110: mov dl, [ecx+1] → mov dl, [eax+1])
```