Section 4

1. What does the following code do?

```assembly
iii)     movl    (%rdi), %eax
        leal    (%eax,%eax,2), %eax
        addl    %eax, %eax
        andl    %esi, %eax
        subl    %esi, %eax
        ret
```

(14au midterm)

[Tutorial Script For Phase 1]

gdb bomb
break explode_bomb
break phase_1
break finish_lab     (this function doesn't exist)
run
[input a string]
disas     (shows disassembly of phase 1, also your current place in the program)
help info  (illustrate help command)
info registers (show the contents of the registers)
q
step      (bomb will explode now unless you magically guessed the right string)
kill      (will hit breakpoint on explode_bomb, don't want it to explode, kill it!!!)
run
[input a string]
stepi
stepi
disas     (show that we are at the function call to compare strings--layout asm is ok too)
x / 10wx $rdi  x /NUM SIZE FORMAT (shows contents of memory at address x)
x / s $rdi     (hey looks like when we interpret the contents as characters...)
x / s $rsi     (let's look at what is in the other register... hey!)
kill
run
[your string for phase 1!]

---END---

Misc Tip:
set args (for rerunning with no args)