

Quiz 4

Please use your UCSD email address.

This corresponds to some of the reading through 6.3.5, and lectures through October 11.

* Required

1. Email address *

ANSWER KEY

2. Which register is the program counter in ARM? *

Mark only one oval.

- ☐ r0
- ☐ r
- ☒ r15
- ☐ N
- ☐ cpsr

3. How many times will these four instructions update the status register if they run in order? *

```
mov r2, #1
mul r2, r2, r1
subs r1, #1
subne r3, #8
```

Mark only one oval.

- ☐ 0
- ☒ 1
- ☐ 2
- ☐ 3
- ☐ 4

4. A label always turns into an instruction that executes in the generated machine code. *

Mark only one oval.


- ☐ True
- ☒ False

5. If the value 0x00000004 is in r2 when this program starts, what value will be in r1 when it completes? Give your answer as a decimal number with no prefix. *

```
        mov r1, #0
start:
        lsls r2, #1
        bcs end
        add r1, #1
        b start
end:
```

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