Lewandowski, Erica ECE 382 Lab#2 Prelab

Goal: Decrypt an encrypted program!
- Use two subroutines
  1. Decrypt individual values
  2. Using addresses, fetch encrypted data and feed it to 1

Pseudocode\Practice:

- Place message & key into ROM
- Load message & key into REGISTERS

```
mov.w   0x200, R8      ; RAM addr for DM
mov.b   #0xLOC., R5    ; R5 = message
mov.b   #0xLOC, R6     ; R6 = key
```

- call first subroutine
  - ↳ Decrypt byte by byte

```
call #firstsub
```

- call second SR
  - ↳ locate & feed byte @ a time
  - count bytes to determine how many times to use key
  - store DMessage in 0x200 – 0x2XX

```
call #2ndSR
count.b R5 } count
count.b R6 } and?
(feed)
~~R7 = de.message~~
~~mov.b R7, 0x200+~~
```

- back to SR#1
  - ↳ decrypt message
  - ↳ store in RAM@0x200 and on

```
return
  R7 = decrypted msg
mov.w R7, 0(R8)
```

- jump to forever loop