lab04p1b.s Questions

Name: Ado Maksic and Davis Garman

a. What is the value of label Z?

0x11c

b. What is the value of the data referenced by the label Y? (hex)

0xddd5

c. What is the value of the data referenced by the label Y? (decimal)

56789

d. What memory address is referenced by the label Y? (hex)

0x11a

e. What memory address is referenced by the label X?

0x118

f. What is the machine instruction at location 0x8 of the .text section?

“ldrb r5, [r4, #4]”

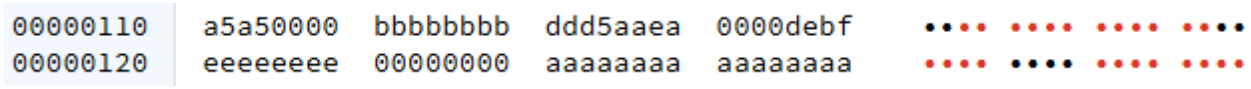
g. What is the offset value of the instruction at location 0x14 of the .text section?

8 is the offset.

h. What will the contents of register r7 be at completion of execution (hex)?

0xdebf

i. Screenshot the memory (bytes) for the data section bounded by the begin and end coremarks. Circle and identify the bytes for the variables X, Y and Z (step thru program first).



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lab04p2a.s

```
00000000   e92d00f0   e59f400c   e5945004   e320f000
00000010   e8bd00f0   e12fff1e   00000024   00000000
00000020   bbbbbbbb   feedface   eeeeeeee   00000000
```

Value of the data associated with W variable: 0xfeedface

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lab04p2b.s Screenshot

```
00000140   00 00 00 00   00 00 00 00   00 00 00 00   bb bb bb bb    •••• •••• •••• ••••
00000150   55 aa aa aa   ff ff ff ff   44 33 22 11   ee ee ee ee    U••• •••• D3"• ••••
```

2.

B value: 0x55

W value: 0x11223344

3. .org is an indication on where the next piece of code or data should go in memory relative to the current segment of memory.

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lab04p3.s Screenshot

```
00000110   0000 a5a5   bbbb bbbb   a57b b9e3   ba5e 0000
00000120   eeee eeee   0000 0000   aaaa aaaa   aaaa aaaa
```

2.

A = 0x7b

B = 0xb9e3

C = 0xba5e