# **Tests & Quizzes**

## Quiz 07

Return to Assessment List

#### **Part 1 of 5 / 3.0 Points**

Question 1 of 5	3.0 Points

Consider the following ARM assembly program

What is the value of R0 and R1 after executing the above program (until reaching the "B halt" instruction)?

R0 = 
$$0x \checkmark FFFFFE8$$
, R1 =  $0x \checkmark 00000043$   
How many times is the ADD instruction executed?  $\checkmark 4$ 

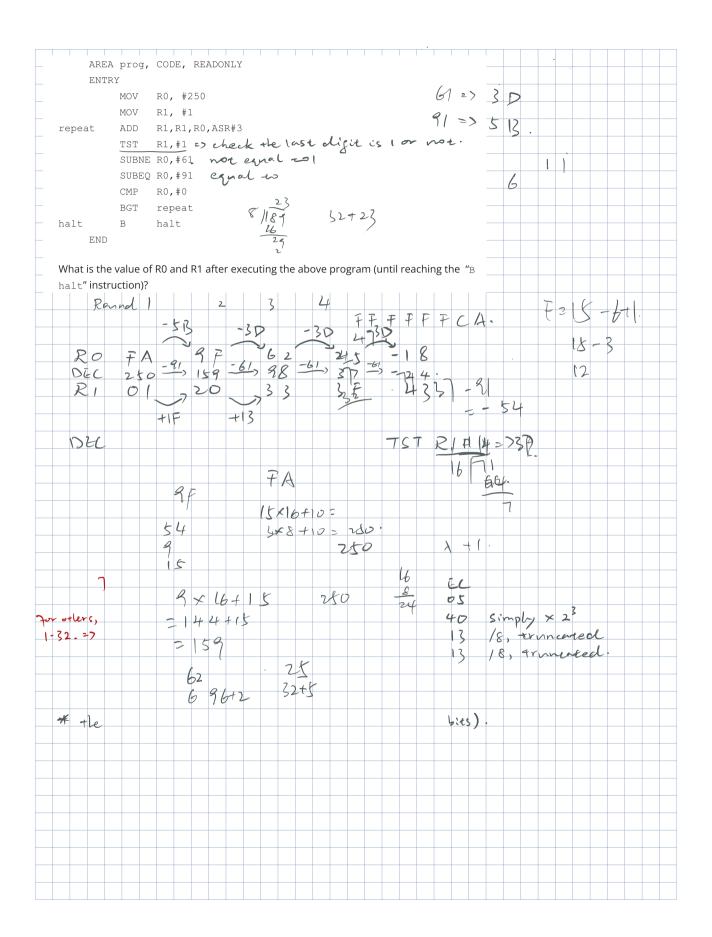
**Answer Key:** FFFFFFE8 | -18, 43 | 00000043, 4

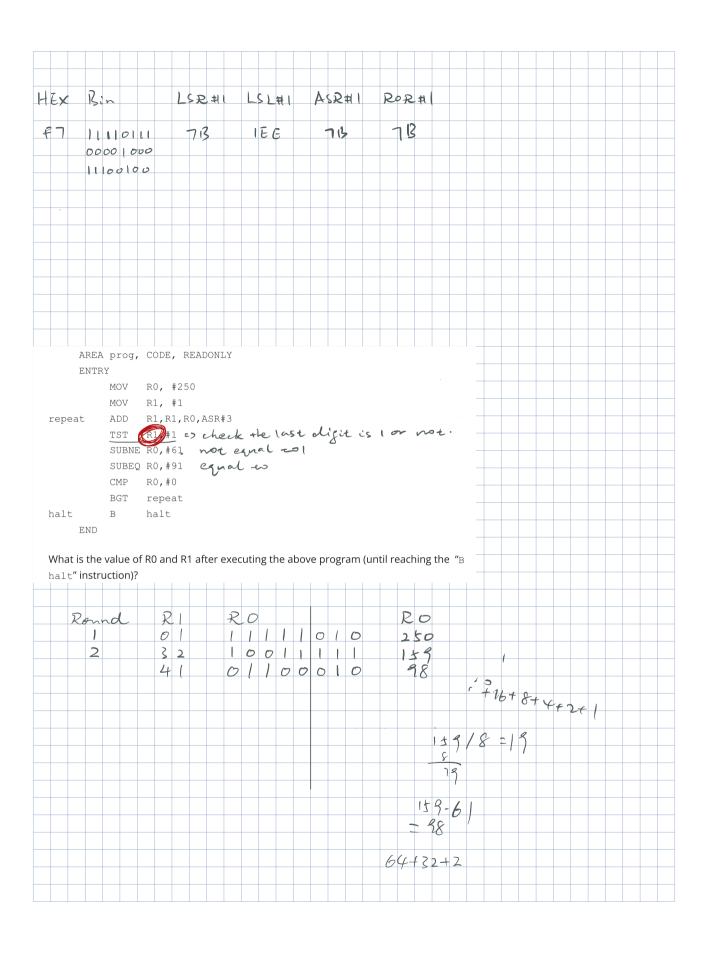
### **Part 2 of 5 / 1.0 Points**



If the align code is 0x5 and the 0-to-255 value is 0xFA, then the literal value in hexadecimal without any leading zeros will be 0x  $\Rightarrow$  5FA.

Answer Key: 3E800000





#### Part 3 of 5 / 2.0 Points

Question 3 of 5	2.0 Points

Click to see additional instructions

If the literal value is 0x2000000A, then the align code in decimal will be 2097152 and the 0-to-255 value in decimal will be 10.

**Answer Key:** 2, 162

### Part 4 of 5 / 7.0 Points

Question 4 of 5		7.0 Points
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Encode the following ARM assembly instruction to ARM machine language code. ADC r1,r2,#0xFC000003

0x **★** <u>FF13A2E2</u>

**Answer Key:** E2A213FF

#### **Part 5 of 5 / 7.0 Points**

Question 5 of 5	7.0 Points

Decode the following ARM machine language code to ARM assembly instruction. 0x71E04345 \* MVN r4, r5, ASR#6

Answer Key: MVNVC r4,r5,ASR #6

