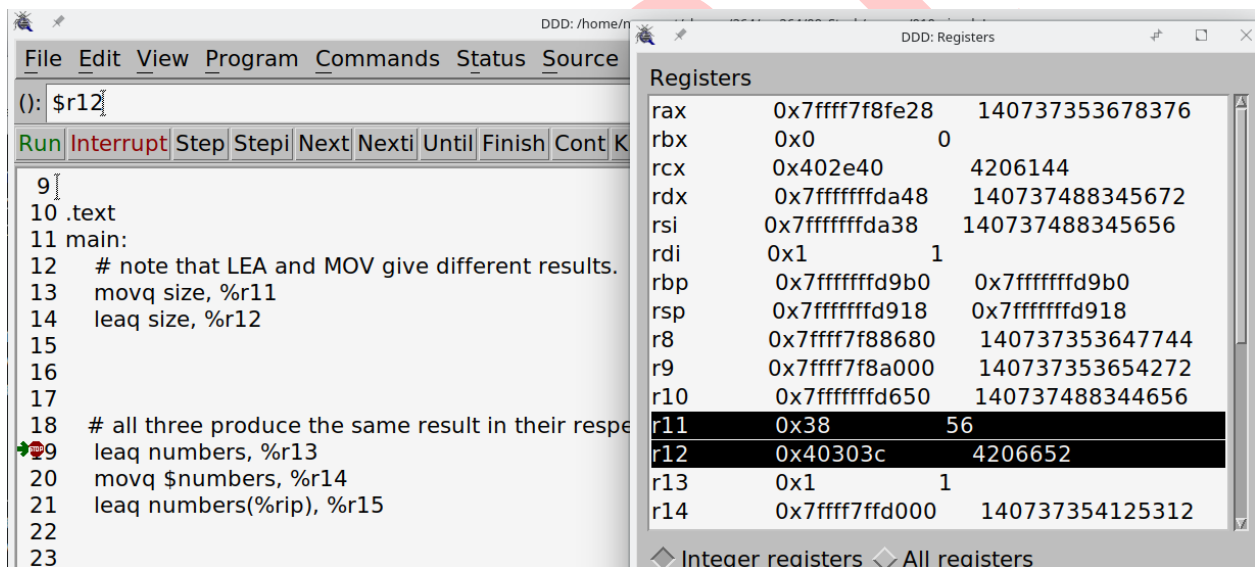


## Unit 09\_010 – LEA (Part 1)

1. What does LEA stand for?
2. How does the SYNTAX of the LEA instruction compare to the SYNTAX of the MOV instruction?
3. How does the MEANING of the LEA instruction compare to the MEANING of the MOV instruction?
4. The following image is from the ddd debugger. It shows the memory contents after lines 13 and 14 of the code were executed. Why are the contents of r11 and r12 different?



## Unit 09\_010 – LEA (Part 2)

*Video Length*

5. Explain why using the "\$" in the statement `movq $size, %r11` reduces the need for the `leaq` instruction.

6. In the GAS assembler in 64-bit mode, which of the following statements is different than the others in their results? Explain your answer.

- `textttmovq size, %r11`
- `textttmovq $size, %r11`
- `textttleaq size, %r11`

7. In the GAS assembler in 64-bit mode, which of the following statements is different than the others in their results? Explain your answer.

- `textttmovq size, %r11`
- `textttmovq $size, %r11`
- `textttmovq size(%rip), %r11`

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If you have any lingering questions or problems, please write them here or see me.

