EE 4953 Intro to x86_64 ASM - Summer 2024

Exam 1

Name:	Score:	/50

Total 2 pages + nasm file

- 1. Byte Ordering. x86_64 is little endian. How would **OxDEADCODE** be represented when looking at it in memory?
 - 0xefbeadde
 - 0xcodedead
 - 0xfeebdaed
 - 0xdecoadde
- 2. RAX contains the address **0xc0ffee.** How do you copy the data it's pointing to into RCX?
 - mov rcx, [rax]
 - mov rcx, rax
 - mov [rcx], rax
 - mov [rcx], [rax]
- 3. What value is in **RAX**, after the following assembly code?

```
mov rax, 1
mov rcx, 2

push rax
push rcx

pop rcx
pop rax
```

- 1
- 2

4. The following pieces of x86 asm would return the same result?

```
mov rax, 1
mov rcx, 2
add rax, rcx
ret
```

```
mov rax, 1
mov rcx, 2
add rcx, rax
ret
```

- True
- False
- 5. What issues can occur when using the div instruction?