Mini Quiz 17 (not for credit)

Name:		
Kerberos:		

Consider the following code:

```
func_foo:
line1: enter $8, $0
line2: movq $1, %rdi
line3: call foo
line4: addq %rdi, %rax
line5: leave
line6: ret

Caller save regs: RAX, RCX, RDX, R8-R11
Callee save regs: RBX, RBP, RDI, RSI, RSP, R12-R15
```

Q: What could go wrong with the above code? Name two ways of fixing it.

Rdi could be destroyed by foo(). To fix:

- Use a different register (e.g., rdx)
- Store rdi (or the value directly) on the stack

Q: Linearize the following expression: (a-foo())-bar(baz()*2)

```
T1 = a

T2 = foo()

T3 = T1 - T2

T4 = baz()

T5 = 2

T6 = T4 * T5

T7 = bar(T6)

T8 = T3 - T7
```