

Translate the following Jeff code to 3AC

```
fn : () int f{
    int a;
    a = 1 + 2;
    return a;
}
```

O Administrivia

P5 due Friday

A couple of things you DON'T have to worry about:

- Checking open/close argument
- Checking the base or index of an array type

Oracle is live!

- It actually DOES handle the above cases if you want to follow them



FLIPPED WEDNESDAY



• Written Work

Topics:

- 3AC
- ISAs



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Question 3

Convert the following 3AC procedure into Jeff. Assume variables are local unless otherwise specified

```
enter k
        getarg 1, [b]
        [i] = [b]
lbl_1: [t] = [i] LT64 10
        ifz [v] goto lbl_2
        [i] = [i] ADD64 1
        WRITE [i]
        goto lbl_1
lbl_2: nop
leave k
```



Assume a language that allows for pass-by-reference or pass-by-value parameters. What would the 3AC code look like for a pass-by-reference call? Illustrate with an example.

• Time Permitting: gdb for x64