- 1. Push R0 onto stack (R0 is caller-saved; that's why the compiler needs to save it)
- 2. Push parameters onto stack
- 3. Call subroutine foo
- 4. Read return value
- 5. Pop parameters and return value (destroy the params)
- 6. Pop R0 off of stack
- 7. PRETEND THAT R3 is CALLEE SAVED, BUT foo needs to use it
- 8. At start of foo (between setting up stack frame and executing code), push R3
- 9. Just before tearing down stack frame (after executing code), pop R3

