```asm
main:
    push %rbp
    mov %rsp, %rbp
    sub $8, %rsp
    push %rbx
    push %r12
    movq $2, -8(%rbp)
    movq -8(%rbp), %rax
    push %rax
    movq $2, %rax
    movq %rax, %rbx

    pop %rax
    cmp %rbx, %rax
    jne __else_0000
    movq -8(%rbp), %rax
    push %rax
    movq $1, %rax
    movq %rax, %rbx
    pop %rax
    addq %rbx, %rax
    movq %rax, -8(%rbp)
    jmp __if_end_0000

__else_0000:
    movq -8(%rbp), %rax
    push %rax
    pop %rdi
    call foo
__if_end_0000:
    movq -8(%rbp), %rax
    mov %rax, %rdi
    mov $60, %rax
    syscall
```