

```
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
```