Thursday, May 2, 2024 2:45 AM

```
.data
g:int
                              .globl g 🎸
                                                       // declare g
fn main() -> int {
                                                       // zero-initialize g
                              g: .zero 8
∜let x:int
                              .text
  entry:
                              globl main
   x = $copy 42
   g = $copy x
                              main:
    $ret g
                                pushq %rbp
}
                                movq %rsp, %rbp
subq $16, %rsp
movq $0, -8(%rbp)
                                jmp main_entry
                              main_entry:
                             → movq $42, -8(%rbp)
                             → movq -8(%rbp), %r8
                                                       // g = x
                            movq %r8, g(%rip)
movq g(%rip), %rax
                                                      // return g
                                jmp main_epilogue
                              main_epilogue:
                                movq %rbp, %rsp
                                popq %rbp
```