```
.data
Stage 3 Codegen Example 2
                                                         .text
Monday, May 6, 2024 11:02 AM
                                                         .globl main
extern foo(int, int, int, int, int, int, int) -> int
                                                         main:
                                                           pushq %rbp
fn main() -> int {
                                                           movq %rsp, %rbp
 let x:int
                                                           subq $16, %rsp
                                                           movq $0, -8(%rbp)
  entry:
                                                           jmp main_entry
    x = $call_ext foo(1, 2, 3, 4, 5, 6, 7)
    $ret x
                                                         main_entry:
}
                                                           movq $1, %rdi
                                                                               // first 6 args in regs
                                                           movq $2, %rsi
                                                           movq $3, %rdx
                                                           movq $4, %rcx
                                                           movq $5, %r8
                                                           movq $6, %r9
                                                                               // 7th arg on stack
                                                        pushq $7
                                                        → subq $8, %rsp
                                                                               // alignment
                                                        → call foo
                                                        → movq %rax, -8(%rbp) // storing return value
                                                       → addq $16, %rsp
                                                                           // restoring stack
                                                           movq -8(%rbp), %rax
                                                           jmp main_epilogue
                                                         main_epilogue:
                                                           movq %rbp, %rsp
                                                           popq %rbp
```

ret