# Disassemble Practice

```
.code64
.LC0:
        .string  "%d\n"
main: .global  main
  push  %rbp
  movq  %rsp, %rbp
  subq  $32, %rsp
  movl  %edi, -20(%rbp)
  movq  %rsi, -32(%rbp)
  movq  -32(%rbp), %rax
  addq  $8, %rax
  movq  (%rax), %rax
  movq  %rax, %rdi
  call  atoi
  movl  %eax, -8(%rbp)
  cmpl  $15, -8(%rbp)
  jle  .L2
  cmpl  $32, -8(%rbp)
  je  .L2
  movl  -8(%rbp), %eax
  addl  $64, %eax
  movl  %eax, -4(%rbp)
  jmp  .L3

.L2:
  cmpl  $2, -8(%rbp)
  jle  .L4
  cmpl  $8, -8(%rbp)
  jg  .L4
  movl  $4, -4(%rbp)
  jmp  .L3
.L4:
  movl  $-1, -4(%rbp)
.L3:
  movl  -4(%rbp), %eax
  movl  %eax, %esi
  movl  $.LC0, %edi
  movl  $0, %eax
  call  printf
  movl  $0, %eax
  leave
  ret
```