Entry
@asm "push   %rbp"
R_RSP_211:ptr {-24 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, -4 : int32_t, 0 : int64_t} =
R_RSP_328:ptr {-32 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, -12 : int32_t, -8 : int64_t} - 8:u64
mem64_212:mem = mem64_327:mem with
[R_RSP_211:ptr {-24 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, -4 : int32_t, 0 : int64_t},e_little]:u64 = R_RBP_0:int64_t
@asm "mov   %rsp,%rbp"
@asm "mov   %rdi,-0x18(%rbp)"
T_temp_265:ptr {0 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 20 : int32_t, 24 : int64_t} =
R_RSP_211:ptr {-24 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, -4 : int32_t, 0 : int64_t} - 24:u64
mem64_214:mem = mem64_212:mem with
[T_temp_265:ptr {0 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 20 : int32_t, 24 : int64_t}, e_little]:u64 =
R_RDI_329:ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}
@asm "movl $0x0,-0x4(%rbp)"
T_temp_266:ptr {-20 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 0 : int32_t, 4 : int64_t} =
R_RSP_211:ptr {-24 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, -4 : int32_t, 0 : int64_t} - 4:u64
mem64_215:mem = mem64_214:mem with
[T_temp_266:ptr {-20 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 0 : int32_t, 4 : int64_t}, e_little]:u32 = 0:u32
@asm "jmp   0x0000000000400548"
jmp 0x400548:u64

0x400548
@asm "cmpq $0x0,-0x18(%rbp)"
mem64_216:mem = phi(mem64_215:mem, mem64_251:mem)
T_temp_268:ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t} =
mem64_216:mem[T_temp_265:ptr {0 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 20 : int32_t, 24 : int64_t}, e_little]:u64
R_ZF_235:bit = 0:u64 == T_temp_268:ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}
@asm "jne   0x0000000000400533"
T_temp_288:bit = ~R_ZF_235:bit
cjmp T_temp_288:bit, 0x400533:u64, "nocjmp0"

T_temp_288:bit == false

T_temp_288:bit == true

0x400533
@asm "mov   -0x18(%rbp),%rax"
@asm "mov   0x8(%rax),%eax"
T_temp_292:ptr {-8 : u t_103.ptr {0 : t_103, 8 : int32_t}, 0 : int32_t} =
T_temp_268:ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t} + 8:u64
T_temp_293:int32_t =
mem64_216:mem[T_temp_292:ptr {-8 : u t_103.ptr {0 : t_103, 8 : int32_t}, 0 : int32_t}, e_little]:u32
R_RAX_237:int64_t = pad:u64(T_temp_293:int32_t)
@asm "add   %eax,-0x4(%rbp)"
T_t1_238:int32_t =
mem64_216:mem[T_temp_266:ptr {-20 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 0 : int32_t, 4 : int64_t}, e_little]:u32
T_t2_239:int32_t = low:u32(R_RAX_237:int64_t)
T_temp_298:int32_t = T_t1_238:int32_t + T_t2_239:int32_t
mem64_240:mem = mem64_216:mem with
[T_temp_266:ptr {-20 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 0 : int32_t, 4 : int64_t}, e_little]:u32 = T_temp_298:int32_t
@asm "mov   -0x18(%rbp),%rax"
R_RAX_249:ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t} =
mem64_240:mem[T_temp_265:ptr {0 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 20 : int32_t, 24 : int64_t}, e_little]:u64
@asm "mov   (%rax),%rax"
R_RAX_250:ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t} =
mem64_240:mem[R_RAX_249:ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, e_little]:u64
@asm "mov   %rax,-0x18(%rbp)"
mem64_251:mem = mem64_240:mem with
[T_temp_265:ptr {0 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 20 : int32_t, 24 : int64_t}, e_little]:u64 =
R_RAX_250:ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}

nocjmp0
@asm "mov   -0x4(%rbp),%eax"
T_temp_291:int32_t =
mem64_216:mem[T_temp_266:ptr {-20 : ptr {0 : u t_103.ptr {0 : t_103, 8 : int32_t}, 8 : int32_t}, 0 : int32_t, 4 : int64_t}, e_little]:u32
R_RAX_252:int64_t = pad:u64(T_temp_291:int32_t)
@asm "pop   %rbp"
@asm "retq   "

BB_Exit
/*exit node*/