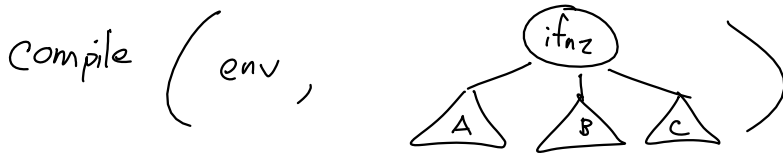


compile (env , ifnz <expr> then <expr> else <expr>)



ifnz 4 then 3 else 8 \Rightarrow 3

eval first expression
depending on value: jump to some label

cmp <arg>, <arg>
jl <label> — jump if less than

mov rax, 4 compile $\triangle A$

cmp 0, rax

je zero_52

mov rax, 3 compile $\triangle B$

jmp end_53

zero_52:

mov rax, 8 compile $\triangle C$

end_53:

(ifnz 4 then 3 else 8) + 1

$\langle \text{expr} \rangle ::= \dots$
($\text{isbool}(\langle \text{expr} \rangle)$)

true $0x80000 \text{---} 00001$
false $0x00000 \text{---} 00001$

$\text{isbool}(v)$
↑
low bit