X := (vector-ref av int$_k$)

=> (movq av %rax)
(movq %rax[8(1+n)] x) // careful in patch
tag field

X := (vector-set! av n ae)
=> (movq ae av[8(1+n)])
(movq 0 x) Noptional
(movq ae %rax)
(movq %rax av[8(1+n)])
rax => r15

X := (allocate Ty) Ty = Vector T1 ... Tn
=> (movq freeptr r15)
(addq 8(1+n) free_ptr)
(movq tag x[0]) // if x is memory loc
(movq x r15)
(movq tag r15[0])

X := (collect)
=> (movq $fill root-stack-ptr (r11) %rdi)
(callq _collect) -> (movq size %rsi)