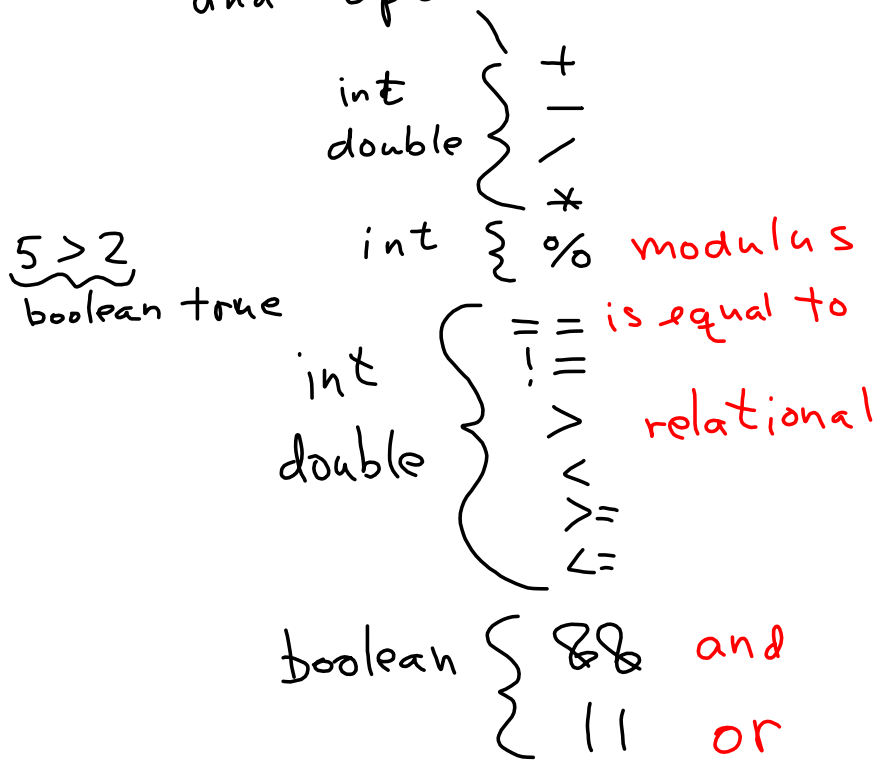


expressions - variables and operators



how to raise to a
power:

Example: want x^y

$\text{Math.pow}(x, y)$

if x and y are
int, returns an
int

if x or y double
returns double

data types:

every variable must have a type

we have seen: int
double } "primitive"
boolean }

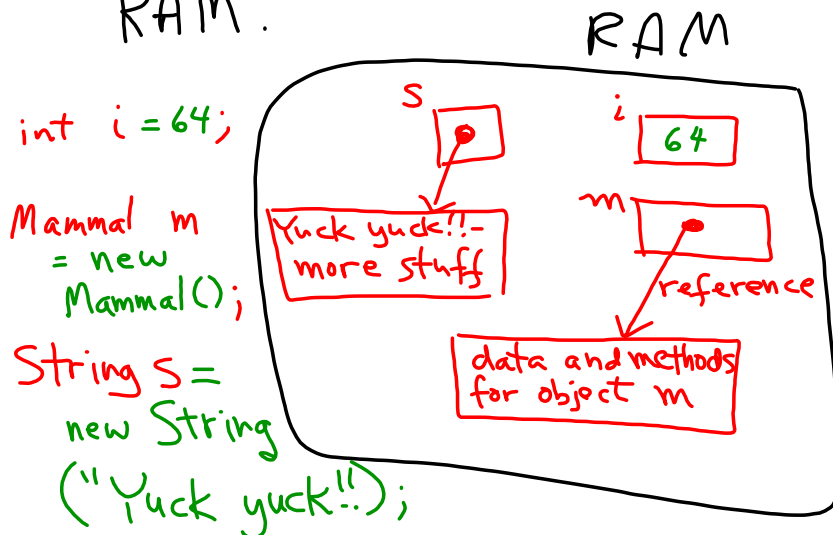
a class → Mammal } class
a declaration:

private Mammal m;

what it means:

the name, m, is of type "reference to object of Mammal class"

every name has a place in RAM.



s contains a reference to an object of the String class

instance variables
aka fields
aka field variables

- can be of any type
- class scope (visibility)

local variables

- can be of any type
- method scope (when done with method, they disappear)