

value types



Value type

Type	Value
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Value type

Type	Value
------	-------

example:

int	1234
-----	------



Stack





## Stack

- method parameters
- return address
- local variables



# Stack

int	1234

- method parameters
- return address
- local variables



# ALL value types

sbyte

byte

char

short

ushort

int

uint

long

long

float

double

decimal

bool

enum

struct



a value type is a type that  
exists on the stack



a value type is a type that  
exists ~~in~~ the stack



Heap



- object instances

Heap



- object instances

Heap

int	1234



# Stack

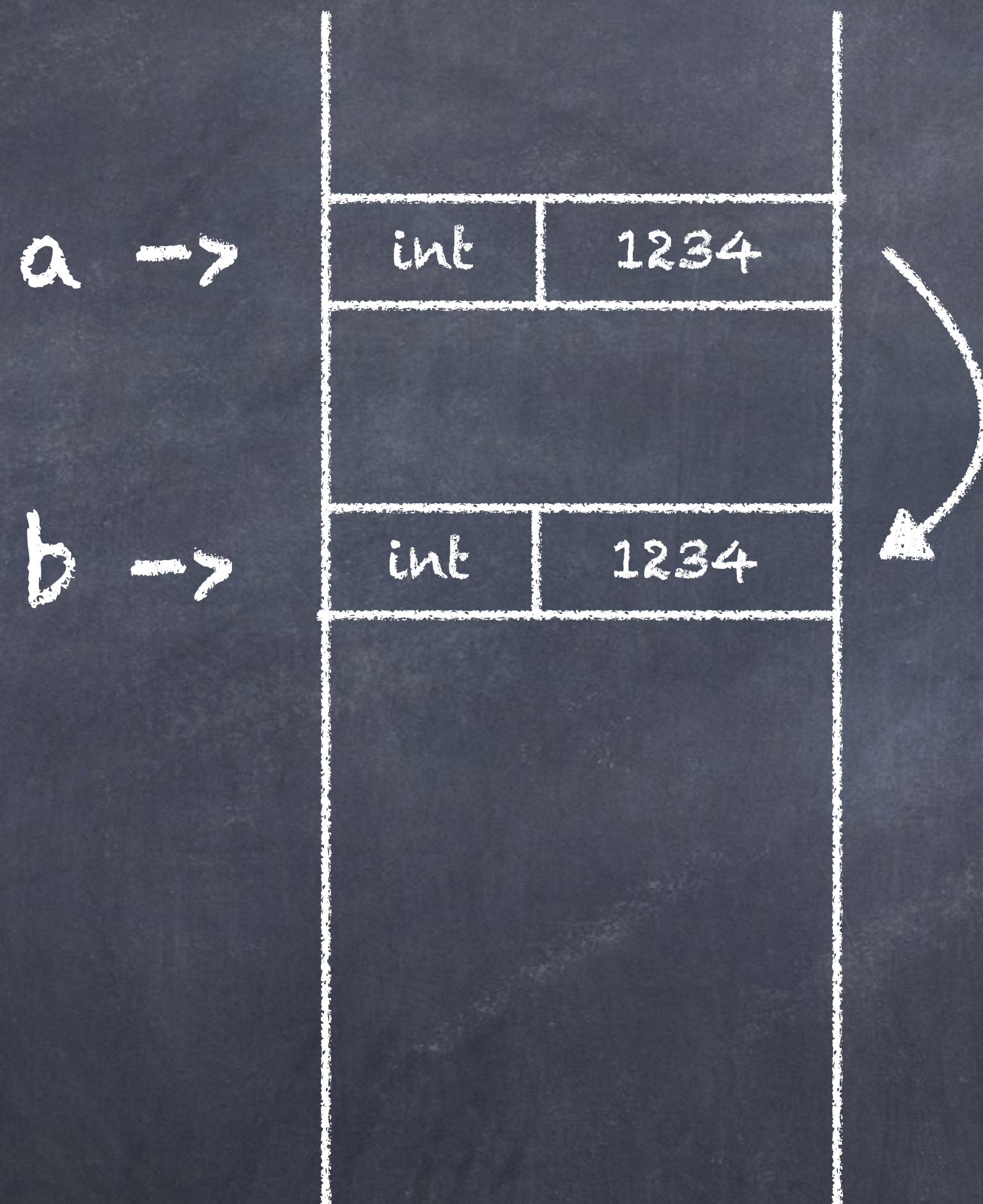
a →

int	1234
int	0

b →



# Stack



when assigning a to b,  
the **value** is copied  
into b.



# Stack

a →

b →

int	1234
int	1234



when comparing a with b,  
the **value** is compared



# Value types

- Value types store their value **directly**
- Value types can exist on the stack and the heap
- Value types are assigned by value
- Value types are compared by value