Welcome!

Getting help:
- friends
- grutors
- 2 profs → office hours! M-W 4-6 F 2-3?
- piazza!
- https://cs.hmc.edu/cs70

Getting a lot out of CS70

Variables in Python & C++

- What's explicit? What's implicit?
- What's accessible? What's hidden?

- What can('t) change ?

name → x = 5 ← value

type → int x = 5;

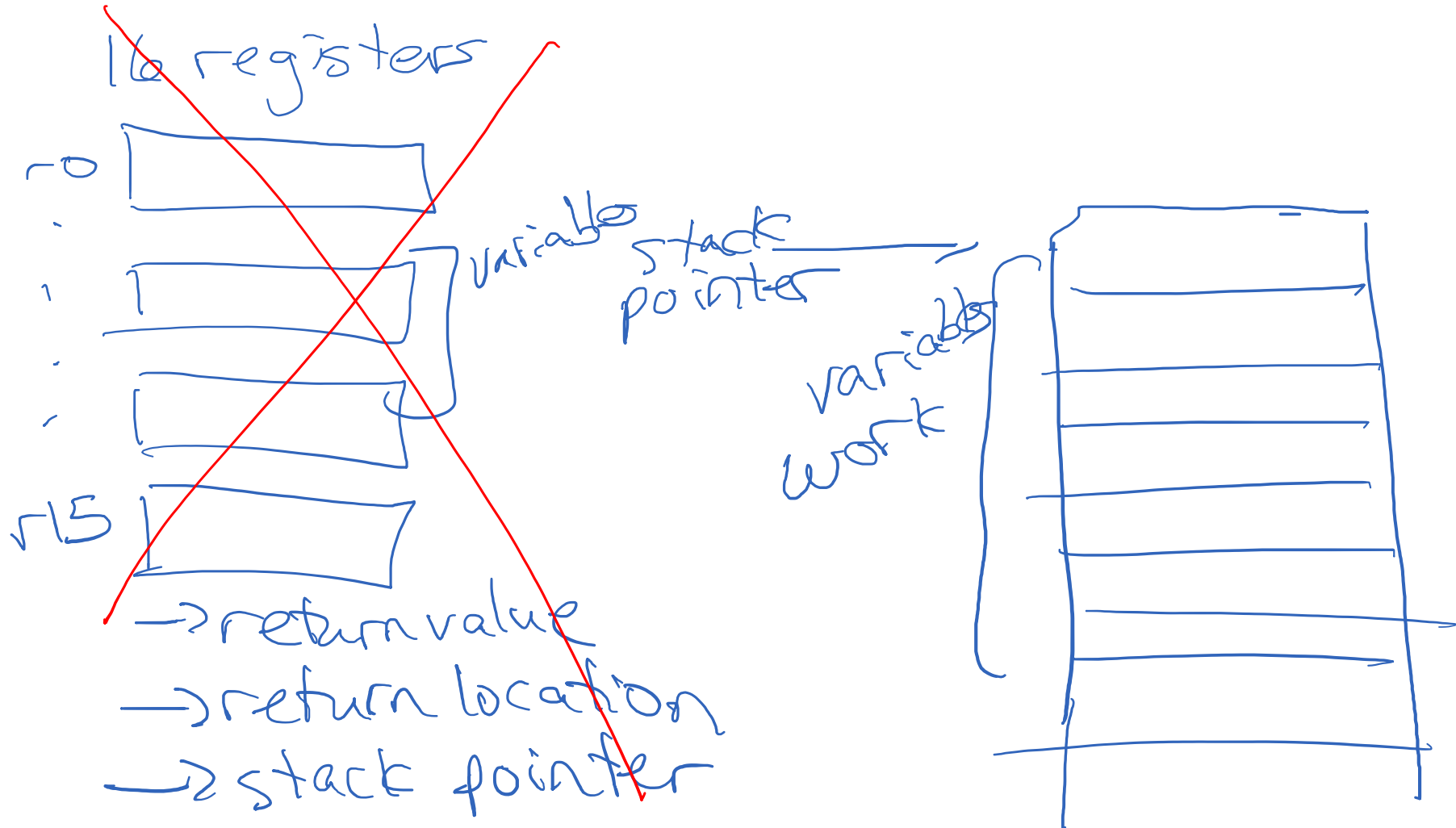|	C++	Python
location	implicit / accessible ★	implicit / hidden
name	explicit / ???	explicit / accessible
type	explicit / ??? static	implicit / accessible / dynamic
value	explicit / accessible ★	explicit / accessible

C++ Guiding Principles

– Zero-overhead principle *Pay for what you use*

– Power to the people

Remember Hmmm?

How does a computer program run?

von Neumann Architecture

The Stack

16 registers

r0

r15

→ return value
→ return location
→ stack pointer

variable stack pointer

variable work

Compiling

int X s0   5

string X s1   "hi"

s2

s3

s4

Running start!

- Looking for a partner? Post on Piazza or pair up in lab on Friday

- Assignment 0: available now, due Friday – get started with tools

- Assignment 1: available Thursday, due next Wednesday – get started with C++