

Name: \_\_\_\_\_

Photo Number: \_\_\_\_\_

Section: \_\_\_\_\_

## Today's Goals:

- Introductions
- “Meet” C++

## Today's Question(s)

What is one thing you wish your CS70 profs knew?

What was one important thing you learned from the assigned readings (syllabus, pair programming tips, CS department appropriate use policy, “All I really Needed to know about Pair Programming. . .”, “Pair Programming Improves Student Retention. . .”)

## Lingering Questions:

What is still unclear after today's class?



Welcome!

Getting a lot out of CS70

# Variables in Python & C++

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

## C++ Guiding Principles

- ▶ Zero-overhead principle
- ▶ Power to the people

# Remember Hmmm?

How does a computer program run?

## von Neumann Architecture

# Compiling

## 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++

## Python:

```
from sys import stderr

def main():
    x = 3
    print(x)

    x = 5
    print(x)

    x = "cs70"
    print(x, file=stderr)

if __name__ == "__main__":
    main()
```

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## C++:

```
#include <iostream>
using std::endl;
using std::cout;
using std::cerr;

int main()
{
    int x = 3;
    cout << x << endl;

    x = 5;
    cout << x << endl;

    // x = "cs70" ==> This will cause an error!
    cerr << x << endl;

    return 0;
}
```