CS 113 – Computer Science I

Lecture 10 – Review

Tuesday 10/10/2023

Announcements

- HW04 – was due Monday 10/09

  First write method stubs, and upload programs with method stubs to Gradescope

  Ensures method signatures are correct

  Allowing you to submit it tonight

- HW 05 – Due Monday 10/30 (after fall break)
  - Implement Blackjack!
  - Paired assignment – can work with a partner

- Midterm 1 – Thursday 02/12

Initializing empty arrays

```
int[] nums = new int[3];
      [0, 0, 0]


String[] strs = new String[3];
      [null, null, null]
```

```java
public static void add1(int[] list, int pos) {
  if (pos >= list.length) {
    return;
  }
  list[pos] += 1;
  add1(list, pos+1);
}


public static void add1(int[] list) {
  add1(list, 0);
}


public static void main(String[] args) {

  int[] numbs = {10, 20, 30};
  printList(numbs);
  add1(numbs);
  printList(numbs);
}
```

What is numbs after we call add1?

Objects

Strings and arrays are **NOT** primitives

They are objects

Explains why we can't use "==" to compare Strings

  "==" checks if two objects are the same

  not if the two values are the same

Midterm – Thursday 10/12

In class, closed book

Terminal commands, vim, directory structure
variables (int, double, char, bool, string, array)
Expressions
Methods
Frame diagrams
Conditionals
Recursion

Practice exam is on course website

Review topics

Types of Errors

Boolean Operators

Conditionals (if-else)

Stack Diagrams

Arrays