



Peer Instruction #1: Variables and Output



Traditional Class Structure

Lecture Textbook Homework Exam

Homework

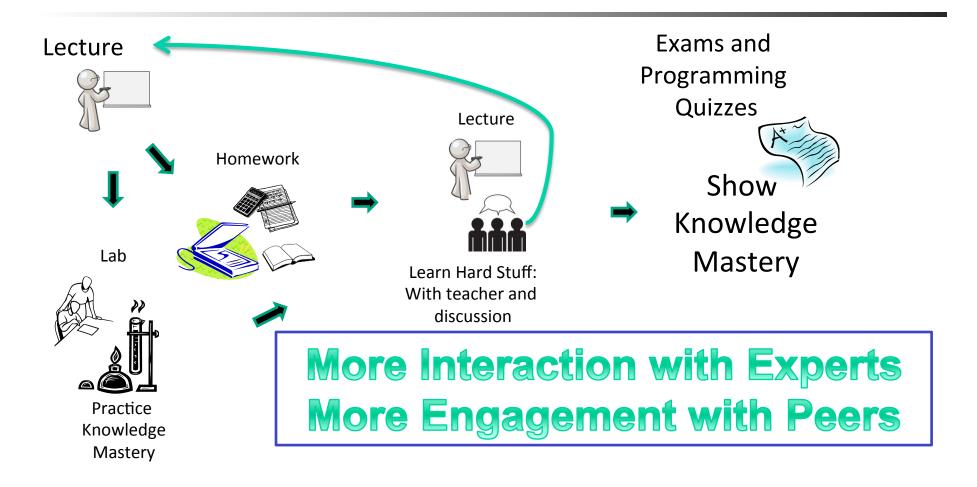
Read Hard Stuff
Exposure

Homework

First
See if You
Know Hard Stuff
Mastery



Our Class Structures





Nuts and Bolts: The process

- A (somewhat difficult) question will be projected.
- Individually choose an answer and submit.
- Instructor will close poll, without showing results.
- Discuss your answer with your peers.
- In your group, choose an answer and submit.
- Instructor will lead discussion, and show results.



What is the difference between the primitive types shown below?

byte, short, int, long

- A. No difference except for the names!
- B. Some types are signed, some are unsigned.
- C. Some represent integers, others real numbers.
- D. Each type has a different size in memory.
- E. None of the above.





Which of the following lists completely follows the rule for identifier syntax?

- A. file0, _string, 123name, #real0
- B. file1, string, name123, \$real1
- C. file2, _string_, float, 1real\$
- D. file3, __string, 872989, true
- E. None of the above





Which of the following variable declarations will not compile?

- A. double real0 = 12345;
- **B.** double real 1 = 678.90;
- C. int integer 0 = 3579753;
- **D.** int integer 1 = 543.21;
- E. All of the above





Which of the following type casts is needed to make the statement compile?

- A. int integer0 = (short) 97;
- B. int integer1 = (byte) 'A';
- C. int integer2 = (float) 12345678;
- D. int integer3 = (int) 35.790123;
- E. All of the above





Which of the following will compile and correctly print the value of the variable?

int myVariable = 123456;

- A. System.out.println("value = " + MyVariable);
- B. System.out.Println("value = " + myVariable);
- C. System.out.println("Value = " + myVariable);
- D. system.out.println("value = " + myVariable);
- E. None of the above





What is the value of the variable answer after the following code is executed?

```
int answer = (10/5) + (10/4) + (12%4) + (11%4);
```

- A. 7.5
- B. 8
- C. 8.5
- D. 9
- E. None of the above



What is the value of the variable answer after the following code is executed?

int answer =
$$10 + 12 / 4 - 3 * 7 / 7 % 4 + 6$$
;

- A. 8
- B. 12
- **C**. 16
- D. 24
- E. None of the above