Peer Instruction 5

Methods and Parameters

0

Which of the method declarations shown below will compile ?

A. public static void method1(int io, i1, i2, char co) { … }
B. public static void method2(int io, String so, char co, int i1) { … }
C. public static void method3(String so, void, int io, char co) { … }
D. public static void method4(int, char, String, double) { … }
E. public static void method5(int i, int j = 10) { … }

Formal Parameters

1

Which of the method declarations shown below will compile ?

A. public static void method1(int io, i1, i2, char co) { … }
B. public static void method2(int io, String so, char co, int i1) { … }
C. public static void method3(String so, void, int io, char co) { … }
D. public static void method4(int, char, String, double) { … }
E. public static void method5(int i, int j = 10) { … }

Formal Parameters

2

Which statement is a valid invocation of a method with and int and float parameter?

A. myMethod(int i = 12, float f = 2.3);
B. myMethod((int) 12.0, (float) 2.3f);
C. myMethod(int i, float f);
D. myMethod(int, float);
E. myMethod(12.0, 2.3f);

Actual Parameters

3

Which statement is a valid invocation of a method with and int and float parameter?

A. myMethod(int i = 12, float f = 2.3);
B. myMethod((int) 12.0, (float) 2.3f);
C. myMethod(int i, float f);
D. myMethod(int, float);
E. myMethod(12.0, 2.3f);

Actual Parameters

4

On to the lecture

5

How can two different methods in a class read and write the same variable?

A. Allow one method to reference a local variable of the other
B. Declare a variable of the same name in both methods
C. Pass the variable as a parameter between methods
D. None of the above

6

How can two different methods in a class read and write the same variable?

A. Allow one method to reference a local variable of the other
B. Declare a variable of the same name in both methods
C. Pass the variable as a parameter between methods
D. None of the above

7

Given the code below, what is output by the two print statements, in order of execution?

```
// Code fragment
int value = 6;
printSquare(value);
System.out.println(value);

public static void printSquare(int value) {
        value = value * value;
        System.out.println(value);
}
```

A. 6, 6
B. 36, 6
C. 36, 36
D. 6, 36
E. None of the above

8

Given the code below, what is output by the two print statements, in order of execution?

```
// Code fragment
int value = 6;
printSquare(value);
System.out.println(value);

public static void printSquare(int value) {
        value = value * value;
        System.out.println(value);
}
```

A. 6, 6
B. 36, 6
C. 36, 36
D. 6, 36
E. None of the above

9

How many activation records are on the stack when executing code in Math.sin?

```
// code fragment in main
foo(1.0);

public static void foo(double d) {
        d += bar(d * d) ;
}
public static void bar(double d) {
        d *= Math.sin(Math.PI);
}
```

A. 0
B. 1
C. 2
D. 3
E. 4

10

How many activation records are on the stack when executing code in Math.sin?

```
// code fragment in main
foo(1.0);

public static void foo(double d) {
        d += bar(d * d) ;
}
public static void bar(double d) {
        d *= Math.sin(Math.PI);
}
```

A. 0
B. 1
C. 2
D. 3
E. 4

11