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Review1 – Data Types and Operators

MULTIPLE CHOICE

1. Which of the following could fill <*1> without causing a compile error?

<*1> x = 89;

- I. int
- II. byte
- III. short
- IV. long
- V. double

- a. I only
- b. I and II only
- c. I, II, and IV only
- d. I, II, III, and IV only
- e. I, II, III, IV, and V

2. Which of the following could fill <*1> without causing a compile error?

<*1> x = 160;

- I. int
- II. byte
- III. short
- IV. long
- V. double

- a. I only
- b. I and II only
- c. I, II, and IV only
- d. I, III, IV, and V only
- e. I, II, III, IV, and V

3. Which of the following could fill <*1> without causing a compile error?

<*1> x = 32799;

- I. int
- II. byte
- III. short
- IV. long
- V. double

- a. I only
- b. I and II only
- c. I, III, IV, and V only
- d. I, III, IV, and V only
- e. I, II, IV, and V only

c. I, II, and IV only

4. Which of the following could fill <*1> without causing a compile error?

<*1> x = 327991L;

- I. int
- II. byte
- III. short
- IV. long
- V. double

- a. I only
- b. I and II only
- c. IV and V only
- d. I, III, IV, and V only
- e. I, II, IV, and V only

5. Which of the following could fill <*1> without causing a compile error?

<*1> x = 900.123f;

- I. int
- II. byte
- III. float
- IV. long
- V. double

- a. I only
- b. III and V only
- c. IV and V only
- d. I, III, IV, and V only
- e. I, IV, and V only

6. Which of the following could fill <*1> without causing a compile error?

<*1> x = 32799.876;

- I. double
- II. byte
- III. float
- IV. long
- V. int

- a. I only
- b. I and II only
- c. I and III only
- d. I, III, IV, and V only
- e. I, II, IV, and V only

7. Which of the following could fill `<*1>` without causing a compile error?

```
<*1> x = 'A';
```

- I. int
- II. byte
- III. short
- IV. long
- V. double

- a. I and III only
- b. I and II only
- c. I and IV only
- d. I, III, IV, and V only
- e. I, IV, and V only

8. Which of the following could fill `<*1>` without causing a compile error?

```
<*1> x = 9 + 5;
```

- I. int
- II. byte
- III. short
- IV. long
- V. double

- a. I and III only
- b. I and II only
- c. I and IV only
- d. I, III, IV, and V only
- e. I, II, III, IV, and V

9. Which of the following could fill `<*1>` without causing a compile error?

```
<*1> x = 9 / 2;
```

- I. int
- II. byte
- III. short
- IV. long
- V. double

- a. I and III only
- b. I, II, and II only
- c. V only
- d. I, III, IV, and V only
- e. I, II, III, IV, and V

Review 2 - Recursion

MULTIPLE CHOICE

1.

```
public void f(int a, int b)
{
    if (a/b != 0)
        f(a/b,b);
    System.out.print(a % b);
}
```

Given the method above, what is printed by the call `f(4,2)` ?

- a. 221
- b. 201
- c. 3
- d. 100
- e. 101

2.

```
public void f(int a, int b)
{
    if (a/b != 0)
        f(a/b,b);
    System.out.print(a % b);
}
```

Given the method above, what is printed by the call `f(5,2)` ?

- a. 221
- b. 201
- c. 3
- d. 100
- e. 101

3.

```
public void f(int a, int b)
{
    if (a/b != 0)
        f(a/b,b);
    System.out.print(a % b);
}
```

Given the method above, what is printed by the call `f(3,7)` ?

- a. 221
- b. 201
- c. 3
- d. 100
- e. 101

4.

```
public void f(int a, int b)
{
    if (a/b != 0)
        f(a/b,b);
    System.out.print(a % b);
}
```

Given the method above, what is printed by the call `f(9,3)` ?

- a. 221
- b. 201
- c. 3
- d. 100
- e. 101

5.

```
public void f(int a, int b)
{
    if (a/b != 0)
        f(a/b,b);
    System.out.print(a % b);
}
```

Given the method above, what is printed by the call `f(25,3)` ?

- a. 221
- b. 201
- c. 3
- d. 100
- e. 101

6.

```
public void f(int a, int b)
{
    if (a/b != 0)
        f(a/b,b);
    System.out.print(a % b);
}
```

Given the method above, what is printed by the call `f(33,4)` ?

- a. 221
- b. 201
- c. 3
- d. 100
- e. 101

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