CS 152
Computer Programming
Fundamentals
Quiz 7

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Spring 2024

Question 1

Which is the best variable declaration for the number of people in your family?

A `boolean foo;`

B `boolean familyMemberCount = 1;`

C `int familyMemberCount = 1;`

D `float familyMemberCount = 1;`

E `double familyMemberCount = 1;`

Question 1

Which is the best variable declaration for the number of people in your family?

A ```boolean foo;```

B ```boolean familyMemberCount = 1;```

C ```int familyMemberCount = 1;```

D ```float familyMemberCount = 1;```

E ```double familyMemberCount = 1;```

Question 2

```java
public class TestClass {
  public static void main(String[] args) {
    int x = 5;
    int y = 10;
    y = y - x / 2;
    System.out.println(y);
  }
}
```

Question 2

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public class TestClass {
  public static void main(String[] args) {
    int x = 5;
    int y = 10;
    y = y - x / 2;
    System.out.println(y);
  }
}
```

8

Question 3

```
public static void main(String[] args) {
  int n = 92;
  int a = n / 25;
  n = n % 25;
  int b=n / 10;
  n = n % 10;
  System.out.println(a);
  System.out.println(b);
  System.out.println(n);
}
```

n 92

Question 3

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public static void main(String[] args) {
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  n = n % 10;
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n 92

a 3

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n 7

a 3

b 1

3
1
7

Question 4

Which of the following is *not* part of all loops?

A initialization

B loop body

C termination condition

D the keyword "while"

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B loop body

C termination condition

D the keyword "while"

Question 5

What is the output of the following code?

```
public static void main(String[] args) {
    int n = 10;
    int z = n-1;
    while (z > 1) {
        if ((n % z) != 0) {
            System.out.print(z +", ");
        }
        z--;
    }
}
```

Question 5

What is the output of the following code?

```java
public static void main(String[] args) {
    int n = 10;
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    while (z > 1) {
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            System.out.print(z +", ");
        }
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9,

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9, 8, 7, 6, 4,

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        z--;
    }
}
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9, 8, 7, 6, 4, 3,

Question 6

What is the output of the following code?

```java
public static void main(String[] args) {
    int a = 4;
    for (int i=a*a; i > 1; i -= 5) {
        System.out.print("(" + i + "," + a + ") ");
    }
    System.out.println();
}
```

Question 6

What is the output of the following code?

```java
public static void main(String[] args) {
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        System.out.print("(" + i + "," + a + ") ");
    }
    System.out.println();
}
```

(16,4)

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    }
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}
```

(16,4) (11,4) (6,4)

Question 7

What is the best type to store the following?

The value of the square root of 3
- boolean
- double
- int
- Random
- Scanner
- String

Question 7

What is the best type to store the following?

The value of the square root of 3

- `double`

Question 7

What is the best type to store the following?

The current state of a light switch (on or off)

- `boolean`
- `double`
- `int`
- `Random`
- `Scanner`
- `String`

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The current state of a light switch (on or off)

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Question 7

What is the best type to store the following?

The number of adults in a household
- `boolean`
- `double`
- `int`
- `Random`
- `Scanner`
- `String`

Question 7

What is the best type to store the following?

The number of adults in a household

- `int`

Question 7

What is the best type to store the following?

The result of a coin flip

- boolean
- double
- int
- Random
- Scanner
- String

Question 7

What is the best type to store the following?

The result of a coin flip
- `boolean`

Question 7

What is the best type to store the following?

The title of a movie
- `boolean`
- `double`
- `int`
- `Random`
- `Scanner`
- `String`

Question 7

What is the best type to store the following?

The title of a movie

- String

Question 8

Which code would you use to create an array that could hold 50 String objects?

A `Strings names = new String(50);`

B `String names = new String[50];`

C `String names[50];`

D `String[50] names;`

E `String[50] names = new String();`

F `String[] names = new String;`

G `String[] names = new String[50];`

H `String[] names = new String(50);`

I `String[] names = new [String](50);`

Question 8

Which code would you use to create an array that could hold 50 `String` objects?

A `Strings names = new String(50);`

B `String names = new String[50];`

C `String names[50];`

D `String[50] names;`

E `String[50] names = new String();`

F `String[] names = new String;`

G `String[] names = new String[50];`

H `String[] names = new String(50);`

I `String[] names = new [String](50);`

Question 9

```
boolean apple = true;
boolean orange = false;
boolean banana = true;
boolean kiwi = false;

apple && orange
```

Question 9

```
boolean apple = true;
boolean orange = false;
boolean banana = true;
boolean kiwi = false;
```

`apple && orange` false

Question 9

```
boolean apple = true;
boolean orange = false;
boolean banana = true;
boolean kiwi = false;

apple || orange || banana
```

Question 9

```
boolean  apple  = true;
boolean  orange = false;
boolean  banana = true;
boolean  kiwi   = false;
```

`apple` || `orange` || `banana` true

Question 9

```
boolean apple = true;
boolean orange = false;
boolean banana = true;
boolean kiwi = false;

!kiwi
```

Question 9

```
boolean  apple = true;
boolean  orange = false;
boolean  banana = true;
boolean  kiwi = false;
```

`!kiwi` true

Question 9

```
boolean apple  = true;
boolean orange = false;
boolean banana = true;
boolean kiwi   = false;

(apple || kiwi) && (orange || kiwi)
```

Question 9

```
boolean  apple  = true;
boolean  orange = false;
boolean  banana = true;
boolean  kiwi   = false;

(apple || kiwi) && (orange || kiwi)  false
```

Question 9

```
boolean apple = true;
boolean orange = false;
boolean banana = true;
boolean kiwi = false;

!apple && (!orange || banana || kiwi)
```

Question 9

```
boolean  apple = true;
boolean  orange = false;
boolean  banana = true;
boolean  kiwi = false;

!apple && (!orange || banana || kiwi) false
```

Question 9

```
boolean apple = true;
boolean orange = false;
boolean banana = true;
boolean kiwi = false;

!apple || (!orange || banana || kiwi)
```

Question 9

```
boolean apple = true;
boolean orange = false;
boolean banana = true;
boolean kiwi = false;

!apple || (!orange || banana || kiwi) true
```