

CS 152
Computer Programming
Fundamentals
Quiz 8

Brooke Chenoweth

University of New Mexico

Fall 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

```
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

```
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

```
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

a 3

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 17

a 3

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 17

a 3

b 1

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 7

a 3

b 1

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	7	3
a	3	1
b	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”

Question 4

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

- A initialization
- 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?

```
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--;  
    }  
}
```

9,

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--;  
    }  
}
```

9, 8,

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--;
    }
}
```

9, 8, 7,

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--;  
    }  
}
```

9, 8, 7, 6,

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--;
    }
}
```

9, 8, 7, 6, 4,

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--;
    }
}
```

9, 8, 7, 6, 4, 3,

Question 6

What is the output of the following code?

```
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?

```
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();  
}
```

(16,4)

Question 6

What is the output of the following code?

```
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();  
}
```

(16,4) (11,4)

Question 6

What is the output of the following code?

```
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();  
}
```

(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

Question 7

What is the best type to store the following?

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

- boolean

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
```