



## Review Test Submission: Q 1

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test Q 1  
Started 5/29/13 4:18 AM  
Submitted 5/29/13 4:38 AM  
Status Completed  
Attempt Score 20 out of 20 points  
Time Elapsed 20 minutes.  
Instructions

### Question 1

1 out of 1 points

Secondary storage is one of the major components of a typical computer system. Of the following major components of a typical computer system, which could be considered primary storage?



Selected Answer: Main memory

Correct Answer: Main memory

### Question 2

1 out of 1 points

This type of storage can hold data for long periods of time - even when there is no power to the computer.



Selected Answer: secondary storage

Correct Answer: secondary storage

### Question 3

1 out of 1 points

This part of the computer fetches instructions, carries out the operations commanded by the instructions, and produces some outcome or resultant information.



Selected Answer: CPU

Correct Answer:

**Question 4**

1 out of 1 points

Each byte in memory is assigned a unique



Selected Answer:



address

Correct Answer:



address

**Question 5**

1 out of 1 points

If you were to look at a machine language program, you would see



Selected Answer:



a stream of binary numbers

Correct Answer:



a stream of binary numbers

**Question 6**

1 out of 1 points

Java was created at



Selected Answer:



Sun (now Oracle)

Correct Answer:



Sun (now Oracle)

**Question 7**

1 out of 1 points

Variables are



Selected Answer:



Data elements with values, type and names

Correct Answer:



Data elements with values, type and names

**Question 8**

1 out of 1 points

Eclipse is primarily a(n)

Selected Answer:



Development Tool

Correct Answer:



Development Tool

### Question 9

1 out of 1 points

Key words are



Selected Answer:



Words that have a special meaning in the programming language

Correct Answer:



Words that have a special meaning in the programming language

### Question 10

1 out of 1 points



Eclipse is required to write Java programs.

Selected Answer:



False

Correct Answer:



False

### Question 11

1 out of 1 points

JVM stands for



Selected Answer:



Java Virtual Machine

Correct Answer:



Java Virtual Machine

### Question 12

1 out of 1 points

Rules that must be followed when writing a program make up the \_\_\_\_\_ of a language.



Selected Answer:



syntax

Correct Answer:




syntax


### Question 13

1 out of 1 points

One of the design tools used by programmers when creating a model of the program is



Selected Answer:  Pseudocode


Correct Answer:  Pseudocode


#### Question 14

1 out of 1 points

This is a cross between human language and a programming language.



Selected Answer:  Pseudocode


Correct Answer:  Pseudocode


#### Question 15

1 out of 1 points

This is a software entity that contains data and code.



Selected Answer:  Object


Correct Answer:  Object


#### Question 16

1 out of 1 points

An object typically hides its data, but allows outside code to access



Selected Answer:  The methods that operate on the data


Correct Answer:  The methods that operate on the data


#### Question 17

1 out of 1 points

Whereas \_\_\_\_\_ is centered on creating procedures, \_\_\_\_\_ is centered on creating objects.



Selected Answer:  Procedural programming, Object-oriented programming

Correct Answer:  Procedural programming, Object-oriented programming

#### Question 18

1 out of 1 points

Byte code instructions are



Selected Answer: ☒

Read and interpreted by the JVM

Correct Answer: ☒

Read and interpreted by the JVM

### Question 19

1 out of 1 points

Software refers to



Selected Answer: ☒

Programs

Correct Answer: ☒

Programs

### Question 20

1 out of 1 points

The language Ada was created for US government programming. It gets its name from



Selected Answer: ☒

The woman who wrote the first program

Correct Answer: ☒

The woman who wrote the first program

Monday, July 22, 2013 9:48:19 PM EDT

← OK



## Review Test Submission: Q 2

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test Q 2  
Started 6/9/13 11:43 PM  
Submitted 6/9/13 11:59 PM  
Status Completed  
Attempt Score 19 out of 20 points  
Time Elapsed 15 minutes.  
Instructions Open eclipse quiz rules

### Question 1

1 out of 1 points

A block of statements, such as the contents of a class or a method, are enclosed in \_\_\_\_\_ .



Selected Answer: curly braces

Correct Answer: curly braces

### Question 2

1 out of 1 points

Variables have 3 characteristics, including all EXCEPT



Selected Answer: rank

Correct Answer: rank

### Question 3

1 out of 1 points

What is the data type of the following literal value:  
19.0



Selected Answer: double

Correct Answer:


double


#### Question 4

1 out of 1 points

What will be the value of x after the following statement is executed:  
`int x = 12 / 4 * 3;`



Selected Answer:   
9


Correct Answer:   
9


#### Question 5

1 out of 1 points

Which of the following will correctly convert the data type, if x is a float and y is a double?



Selected Answer:   
`x = (float)y;`


Correct Answer:   
`x = (float)y;`


#### Question 6

1 out of 1 points

What is the data type of the following literal value:  
"A"



Selected Answer:   
none of the above


Correct Answer:   
none of the above


#### Question 7

1 out of 1 points

A variable's \_\_\_\_\_ is the part of the program in which you can use the variable.



Selected Answer:   
scope

Correct Answer:   
scope


#### Question 8


1 out of 1 points

Which of the following is a complete, valid comment?

- A. `// comment 1`
- B. `/* comment 2 */`
- C. `** comment 3`



Selected Answer:  A & B


Correct Answer:  A & B


### Question 9

1 out of 1 points



You can use JOptionPane to display messages in dialog boxes.

Selected Answer:  True


Correct Answer:  True


### Question 10

1 out of 1 points

(According to the book) A Java program must have at least one



Selected Answer:  Class


Correct Answer:  Class


### Question 11

1 out of 1 points

Which of the following statements will result in the largest value for x?



Selected Answer:  `int x = 7 % 5;`

Correct Answer:  `int x = 7 % 5;`

### Question 12

1 out of 1 points

What will the following code print?

```
int x = 6;
String msg = "I am enjoying this class.";
char ltr = msg.charAt(x);
System.out.println("Character at index x = " + ltr);
```



Selected Answer:  Character at index x = n



Correct Answer:   
Character at index x = n

### Question 13

1 out of 1 points

Which of the following is a documentation comment?



Selected Answer:   
`/** comment 4 */`


Correct Answer:   
`/** comment 4 */`


### Question 14

1 out of 1 points

Which of the following is generally the default choice for whole number values?



Selected Answer:   
`int`


Correct Answer:   
`int`


### Question 15

1 out of 1 points

What is the data type of the following literal value:  
19



Selected Answer:   
`int`

Correct Answer:   
`int`


### Question 16


1 out of 1 points

Which of the following are valid variable names?

- A. 7Up
- B. colt45
- C. char



Selected Answer:   
B


Correct Answer:   
B


### Question 17

1 out of 1 points

Which of the following is not a primitive data type?



Selected Answer:  String

Correct Answer:  String

### Question 18

1 out of 1 points


```
String firstName = "Smokey";  
String middleName = "the";  
String lastName = "Bear";  
  
// your added code goes here  
  
System.out.println(fullName);
```

Using the 3 variables given, write one or two Java statements to go before the last line of code above (at the comment) to cause the following output:



Smokey the Bear

Selected Answer: String fullName = (firstName + " " + middleName + " " + lastName);

Correct Answer:   
String fullName = firstName + " " + middleName + " " +  
lastName;

Response [None Given]  
Feedback:

### Question 19

0 out of 1 points

```
import javax.swing.JOptionPane;  
  
public class f2C  
{  
    public static void main(String[] args)  
    {  
        double tempInF, tempInC;  
        String inputString;  
  
        // missing stuff here ...
```

```
System.exit(0);  
}  
}
```

The class above is supposed to convert temperatures in degrees F to temperatures in degrees C. However, the following lines are missing. In what order do they belong? Just enter line numbers, i.e. 123456 if you think the following lines are already in the correct order.



```
1 ("Enter a temperature in degrees F:");  
2 (null, tempInF + " F = " + tempInC + " C");  
3 inputString = JOptionPane.showInputDialog  
4 JOptionPane.showMessageDialog  
5 tempInC = (5.0/9 * (tempInF - 32));  
6 tempInF = Double.parseDouble(inputString);
```

Selected Answer: 413265

Correct Answer:



316542

```
3 inputString = JOptionPane.showInputDialog  
1 ("Enter a temperature in degrees F:");  
6 tempInF = Double.parseDouble(inputString);  
5 tempInC = (5.0/9 * (tempInF - 32));  
4 JOptionPane.showMessageDialog  
2 (null, tempInF + " F = " + tempInC + " C");
```


Response Feedback: [None Given]

## Question 20


1 out of 1 points

Which of these is least like the others, in terms of numerical value?



Selected Answer: 

float f = 1.0f;

Correct Answer: 

float f = 1.0f;

Monday, July 22, 2013 10:00:38 PM EDT

← OK



## Review Test Submission: HW 2

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test HW 2  
Started 5/29/13 4:14 AM  
Submitted 6/3/13 4:06 PM  
Status Completed  
Attempt Score 9 out of 10 points  
Time Elapsed 131 hours, 51 minutes.  
Instructions

### Question 1

1 out of 1 points

Which of the following is the smallest data type that will hold the value 128?



Selected Answer: short

Correct Answer: short

### Question 2

1 out of 1 points

What is the data type of the following literal value:  
19



Selected Answer: int

Correct Answer: int

### Question 3

1 out of 1 points

What is the data type of the following literal value:  
19.0



Selected Answer: double

Correct Answer: double


#### Question 4


1 out of 1 points

What is the data type of the following literal value:

1



Selected Answer:  int

Correct Answer:  int


#### Question 5

0 out of 1 points

What is the data type of the following literal value:

"A"



Selected Answer:  char


Correct Answer:  none of the above


#### Question 6

1 out of 1 points

Which of these is least like the others, in terms of numerical value?



Selected Answer:  float f = 1.0f;


Correct Answer:  float f = 1.0f;


#### Question 7

1 out of 1 points

Which of the following statements will result in the largest value for x?



Selected Answer:  int x = 7 % 5;

Correct Answer:  int x = 7 % 5;


#### Question 8


1 out of 1 points

What will be the value of x after the following statement is executed:

int x = (3 / 2) \* 2;



Selected Answer:  2


Correct Answer:   
2


### Question 9

1 out of 1 points

What will be the value of x after the following statement is executed:  
`int x = 12 / 4 * 3;`



Selected Answer:   
9


Correct Answer:   
9


### Question 10

1 out of 1 points

Which of the following is not a primitive data type?



Selected Answer:   
array

Correct Answer:   
array

Monday, July 22, 2013 10:00:38 PM EDT

← OK



## Review Test Submission: Q 3

User Abdus Samad Khan

Course Java Programming I- SU13

Test Q 3

Started 6/14/13 12:35 AM

Submitted 6/14/13 1:58 AM

Status Completed

Attempt 19 out of 20 points

Score

Time 1 hour, 23 minutes.

Elapsed

Instructions Don't write more than you are asked to. If it says write an if statement, just write an if statement. Don't declare or initialize variables, don't prompt for input, don't write anything the question doesn't ask for. Read my code **very** carefully. Some of it is evil.

### Question 1

1 out of 1 points

Which of the following expressions means "x is greater than or equal to y"?



Selected Answer:



$x \geq y$

Correct Answer:



$x \geq y$

### Question 2

1 out of 1 points

The expression in the ( )s of an if statement must evaluate to



Selected Answer:



true or false

Correct Answer:



true or false

### Question 3

1 out of 1 points

A variable's scope ends at the closing brace of the block of code in which it is declared.




Selected Answer: True

Correct Answer: True


#### Question 4


1 out of 1 points

What is the value of x after the following code has been executed?



```
int x = 75;
int y = 90;
if (x != y)
    x += y;
```


Selected Answer:   
165

Correct Answer:   
165


#### Question 5


1 out of 1 points

What will be the values of ans, x, and y after the following statements are executed?



```
int ans = 0, x = 15, y = 25;
if (x >= y)
{
    ans = x + 10;
    x -= y;
}
else
{
    ans = y + 10;
    y += x;
}
```


Selected Answer:   
ans = 35, x = 15, y = 40

Correct Answer:   
ans = 35, x = 15, y = 40

#### Question 6

1 out of 1 points

In the code fragment below, which value will be assigned to discountRate?





```
double a=22, b=24, c=27, d=29, e=31;

double discountRate = 0.0;
int purchase = 1250;
char cust = 'N';
if (purchase > 1000)
    if (cust == 'Y')
        discountRate = a;
    else
        discountRate = b;
else if (purchase > 750)
    if (cust == 'Y')
        discountRate = c;
```



```
else
    discountRate = d;
else
    discountRate = e;
```

Selected Answer:   
24.0

Correct Answer:   
24.0

### Question 7


1 out of 1 points

Write an if statement that assigns 100 to x when y is at least 0.

Selected Answer: if (y >= 0)

```
{
    x = 100;
}
```



Correct Answer:   
if (y >= 0)  
 x = 100;

Response Feedback: [None Given]

### Question 8


1 out of 1 points

Write an if statement that sets x to "temperature out of range" if the variable y is less than 18 or more than 25.

Selected Answer: if (y < 18 || y > 25)

```
{
    x = "temperature out of range";
}
```



Correct Answer:   
if (y < 18 || y > 25)  
 x = "temperature out of range";

Response Feedback: [None Given]

### Question 9

1 out of 1 points

Write an if statement that assigns 65 to y if x **not** equal to B? (65 and B are literals, x and y are variables.)

Selected Answer: `if (!x.equals("B"))`

```
{  
    y = 65;  
}
```



Correct Answer:



```
if (x != 'B')           // char literal  
    y = 65;  
// OR  
if (!x.equals("B"))    // String literal  
    y = 65;
```

Response Feedback: [None Given]

## Question 10

1 out of 1 points

Given the following code, is line 4 executed? Why or why not?

```
1 int f = 7, g = 8;  
2 if (f > g)  
3     f = 8;  
4     g = 7;
```

Selected Answer: Yes, line 4 is executed. Line 3 is not executed because it is part of the if statement. However, since there are no curly braces after the if statement, only the first line after the if statement (line 3) is part of the if statement condition. Line 4 is not affected by the if statement at all.



Even though the if statement yields false, line 4 is executed and line 3 is not because line 4 is not affected by the if statement.

Correct



Answer: Yes. Regardless of the condition, line 4 is not part of the if statement - it will always be executed. The indentation doesn't matter.

Response [None Given]  
Feedback:

## Question 11

3 out of 3 points

Rewrite the following code as exactly as possible, using an if-else-if structure instead of the switch. Assume that the following code was taken from a working program (it was) and don't worry about what comes before or after this section. (I.e. don't worry about declarations, etc.) Your code should do whatever this code does.

```

switch (choice)
{
    case 1:
        name = "animal";
        break;
    default:
        System.out.println("Invalid entry. Using default");
    case 2:
        name = "vegetable";
        break;
    case 3:
        name = "mineral";
}

```

Selected if (choice == 1)

Answer:

```
name = "animal";
```

```
else if (choice == 2)
```

```
name = "vegetable";
```

```
else if (choice == 3)
```

```
name = "mineral";
```

```
else
```

```
{
```

```
System.out.println("Invalid entry. Using default");
```

```
name = "vegetable";
```

```
}
```



Correct



Answer:

```

if (choice == 1)
    name = "animal";
else if (choice == 2)
    name = "vegetable";
else if (choice == 3)
    name = "mineral";
else
{
    System.out.println("invalid entry. using default");
    // the original default case falls through to the next case
    // and sets name to "vegetable"
    name = "vegetable";
}

```

Response [None Given]

Feedback:

Which of the numbered lines below will be executed in the following code?



```
1  int bonus, sales = 1250;
2  if (sales > 1000)
3      bonus = 100;
4  if (sales > 750)
5      bonus = 50;
6  if (sales > 500)
7      bonus = 25;
8  else
9      bonus = 0;
```

Selected Answer:  more than one of the above

Correct Answer:  more than one of the above


### Question 13


1 out of 1 points

Which of the numbered lines in the following code are executed?



```
1  int ans = 35, x = 50, y = 50;
2  if (x >= y)
3  {
4      ans = x + 10;
5      x = x - y;
6  }
7  else
8  {
9      ans = y + 10;
10     y = y + x;
11 }
```

Selected Answer:  4

Correct Answer:  4

### Question 14


0 out of 1 points


Which of the numbered lines is executed in the following code?

```
1  int bonus, sales = 85000;
2  char dept = 'S';
3  if (sales > 100000)
4      if (dept == 'R')
5          bonus = 2000;
6  else
7      bonus = 1500;
8  else if (sales > 75000)
```



```
9    if (dept == 'R')
10        bonus = 1250;
11    else
12        bonus = 1000;
13    else
14        bonus = 0;
```

Selected Answer:  more than one of the above

Correct Answer:  12

### Question 15

1 out of 1 points

Which of the numbered lines will be executed in the following code?



```
1    int x = 10;
2    switch (x)
3    {
4        case 10:
5            x = x + 15;
6        case 12:
7            x = x - 5;
8            break;
9        default:
10           x = x * 3;
11    }
```

Selected Answer:  more than one of the above


Correct Answer:  more than one of the above


### Question 16

1 out of 1 points

A constructor should initialize the object's attributes with appropriate data and perform any necessary setup operations.



Selected Answer:  True


Correct Answer:  True


### Question 17

1 out of 1 points

Assume that a double variable holds the value 459.6329. What format pattern for the DecimalFormat class would you use to display the number as 00459.633?



Selected Answer:  00000.000

Correct Answer:   
00000.000

### Question 18

1 out of 1 points

Write an if statement that prints "OK" to the screen if the contents of the String variable userPassword is "Tr0ub4dor&3"

Selected Answer: `if (userPassword.equals("Tr0ub4dor&3"))`

`System.out.println("OK");`



Correct Answer:



```
if (userPassword.equals("Tr0ub4dor&3"))
    System.out.println("OK");
```

Response Feedback: [None Given]

Monday, July 22, 2013 10:00:38 PM EDT

← OK



## Review Test Submission: HW 3

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test HW 3  
Started 6/11/13 12:49 AM  
Submitted 6/11/13 9:40 PM  
Status Completed  
Attempt Score 10 out of 10 points  
Time Elapsed 20 hours, 51 minutes.  
Instructions

### Question 1

1 out of 1 points



The keyword "new" creates an object in memory from a class.

Selected Answer: True

Correct Answer: True

### Question 2

1 out of 1 points



A constructor should initialize the object's attributes with appropriate data and perform any necessary setup operations.

Selected Answer: True

Correct Answer: True

### Question 3

1 out of 1 points

Assume that a double variable holds the value 459.6329. What format pattern would you use to display the number as 00459.633?



Selected Answer: 00000.000

Correct Answer: 00000.000


### Question 4


1 out of 1 points

Assume that a double variable holds the value 0.179. What format pattern would you use to

display the number as .18?



Selected Answer:   
#.00


Correct Answer:   
#.00

### Question 5

1 out of 1 points

Assume that a double variable number holds the value 7634869.1. What format pattern would you use to display the number as 7,634,869.10?



Selected Answer:   
none of the above


Correct Answer:   
none of the above


### Question 6

1 out of 1 points

Assume that a double variable holds the value 0.4. What format pattern would you use to display the number as 40%?



Selected Answer:   
#0%


Correct Answer:   
#0%


### Question 7

1 out of 1 points

Assume that a double variable holds the value 0.04. What format pattern would you use to display the number as 04.0%?



Selected Answer:   
00.0%

Correct Answer:   
00.0%

### Question 8

1 out of 1 points

Assume that a double variable holds the value 459.6329. What format pattern would you use to display the number as 4.596E02?

Selected Answer: 0.000E00



Correct Answer: 



0.###E00  
0.000E00

Response Feedback: [None Given]

### Question 9

1 out of 1 points

Assume that one double variable holds the value 459.6329, and another variable holds -459.6329. What format pattern would you use to display the numbers as 459.63 and -459.63?

Selected Answer: 000.00



Correct Answer:

✓  
0.00  
0.00;-0.00  
0.00;-00.000

Response Feedback: [None Given]

### Question 10

1 out of 1 points

Assume that one double variable number holds the value 459.6329, and another variable holds -459.6329. What format pattern would you use to display the numbers as 459.63 and 459.63-?

Selected Answer: 000.00;000.00-



Correct Answer:

✓  
0.00;0.00-  
000.00;000.00-

Response Feedback: [None Given]

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← OK



## Review Test Submission: Q 4

|              |   |
|--------------|---|
| User         | Abdus Samad Khan  |
| Course       | Java Programming I- SU13  |
| Test         | Q 4   |
| Started      | 6/22/13 10:20 PM  |
| Submitted    | 6/22/13 10:55 PM  |
| Status       | Completed   |
| Attempt      | 19 out of 20 points   |
| Score        |   |
| Time Elapsed | 35 minutes.   |
| Instructions | Although there were detailed questions about which I/O class is which on the HW, I do not expect you to memorize that stuff. This quiz is closed book, so you won't be asked which class does what. |

### Question 1

1 out of 1 points

If a loop does not terminate, it is called



Selected Answer:

An infinite loop

Correct Answer:

An infinite loop

### Question 2

1 out of 1 points

This type of loop will always be executed at least once.



Selected Answer:

do-while loop

Correct Answer:

do-while loop

### Question 3

1 out of 1 points

What will be the value of x after the following code is executed?

```
int x = 10;
while (x < 100)
{
```



```
x += 10;  
}
```

Selected Answer: 100

Correct Answer: 100

#### Question 4

1 out of 1 points

What will be the value of x after the following code is executed?

```
int x = 10, y = 20;  
while (y < 100)  
{
```



```
    x += y;  
}
```

Selected Answer: This is an infinite loop

Correct Answer: This is an infinite loop

#### Question 5

1 out of 1 points

How many times will the increment in the following be executed?

```
int x = 0;  
while (x < 100);  
{  
    x++;  
}
```



Selected Answer: 0

Correct Answer: 0

#### Question 6

1 out of 1 points

How many times will the following loop be executed?

```
for (int count = 0; count < 21; count++)  
    System.out.println(count);
```



Selected Answer: 21

Correct Answer:

**Question 7**

0 out of 1 points



When the break statement is encountered in a loop, all the statements in the body of the loop that appear after it are ignored, and the loop prepares for the next iteration.

Selected Answer: True

Correct Answer: False

**Question 8**

1 out of 1 points



This type of loop is ideal in situations where the exact number of iterations is known.

Selected Answer: for loop

Correct Answer: for loop

**Question 9**

1 out of 1 points

How many times will the while loop be executed?



```
int i = 10;
while (i > 0)
{
    i--;
}
```

Selected Answer: 10

Correct Answer: 10

**Question 10**

1 out of 1 points

How many times will the following loop be executed?



```
int i = 0;
do
{
    i--;
} while (i > 0);
```

Selected Answer: 1

Correct Answer:


**Question 11**


1 out of 1 points

What's the largest number displayed on the console?

```
for (int count = 0; count<=1000; count+=10)
    System.out.println(count);
```



Selected Answer:  1000

Correct Answer:  1000


**Question 12**


1 out of 1 points

How many # symbols will be displayed on the console?

```
for (int i = 0; i < 10; i++)
{
    for (int j = 0; j < 15; j++)
    {
        System.out.print("#");
    }
    System.out.println();
}
```



Selected Answer:  150


Correct Answer:  150

**Question 13**

1 out of 1 points

Any for loop can be re-written as an equivalent while loop.



Selected Answer:  True

Correct Answer:  True


**Question 14**


1 out of 1 points

How many times will the following loop execute?

```
for (i = 0; i < 0; i++)
    counter++;
```




Selected Answer:  0

Correct Answer:   
0

### Question 15

1 out of 1 points

In the code below, the variable x holds



```
int x = 0, y = 1;
while (y != 0)
{
    System.out.print("Enter next amount or 0 to end: ");
    y = keyboard.nextInt();
    x += y;
}
```


Selected Answer:   
a running total

Correct Answer:   
a running total


### Question 16


1 out of 1 points

Which is a pre-test loop?



A. do-while loop  
B. for loop  
C. while loop

Selected Answer:   
B & C


Correct Answer:   
B & C

### Question 17


1 out of 1 points

What is the difference between an input file and an output file?

Selected Answer: The main difference between an input and output file is that data is read from an input file and data is written to an output file.



An input file is a file that a program reads data from and an output file is a file that a program writes data to.

Correct Answer:   
An input file has data that is read as input to the program. An output file contains output data that is written by the program.


Response Feedback: [None Given]


### Question 18

1 out of 1 points

When a program is finished using a file, it should do this.



Selected Answer:  close the file.

Correct Answer:  close the file.

### Question 19

2 out of 2 points

Re-write the following for loop as a while loop. (Hint: although you can't look at your Eclipse code for this, you can look at the other examples on this quiz.)


```
int x;  
for (x = 0; x < 10; x++)  
{  
    System.out.print(x);  
}
```

Selected Answer:     int x = 0;  
                      while (x < 10)



```
{  
    System.out.print(x);  
    x++;  
}
```

Correct Answer:



```
int x = 0;  
while (x < 10)  
{  
    System.out.print(x);  
    x++;  
}
```

Response Feedback: [None Given]

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← OK



## Review Test Submission: HW 4

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test HW 4  
Started 6/18/13 10:16 PM  
Submitted 6/18/13 11:26 PM  
Status Completed  
Attempt Score 9 out of 10 points  
Time Elapsed 1 hour, 9 minutes.  
Instructions instructions!

### Question 1


1 out of 1 points

What is the difference between an input file and an output file?

Selected Answer: An input file is a file that a program reads data from. It is called an input file because the data stored in it serves as input to the program.

An output file is a file that a program writes data to. It is called an output file because the program stores output in the file.



Correct Answer:  An input file has data that is read as input to the program. An output file contains output data that is written by the program.

Response [None Given]  
Feedback:


### Question 2

0 out of 1 points

How do you write the path/filename as a String literal in a java program, if the file is named ReadFile.java, and it is in the src folder on drive D:?

Selected Answer: "D:\\ReadFile.java"



Correct Answer:  "D:\\src\\ReadFile.java"  
"D:/src/ReadFile.java"

Response Feedback: [None Given]



### Question 3

1 out of 1 points

Write the import statement that you must use to perform file operations.

Selected Answer: `import java.io.*;`



Correct Answer: `import java.io.*;`

Response Feedback: [None Given]

### Question 4

1 out of 1 points

Which of the following classes do you use to write data to a file?



Selected Answer: `PrintWriter`

Correct Answer: `PrintWriter`

### Question 5

1 out of 1 points

Which of the following classes do you use to read data from a file?



Selected Answer: `File`

Correct Answer: `File`

### Question 6

1 out of 1 points

What clause must you write in the header of a method that performs a file operation?



Selected Answer: `throws`

Correct Answer: `throws`

### Question 7

1 out of 1 points

This class allows you to use the print and println methods to write data to a file.



Selected Answer: `PrintWriter`


Correct Answer: `PrintWriter`


### Question 8

1 out of 1 points

When a program is finished using a file, it should do this.



Selected Answer:  close the file.


Correct Answer:  close the file.


### Question 9

1 out of 1 points

This class allows you to read a line from a file.



Selected Answer:  Scanner


Correct Answer:  Scanner


### Question 10

1 out of 1 points

One way to read ints from a file is to use



Selected Answer:  the nextInteger method

Correct Answer:  the readLine method, then the ~~parseInt~~ *parseInt* method

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← OK



## Review Test Submission: Q 5

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test Q 5  
Started 6/29/13 8:12 PM  
Submitted 6/29/13 9:02 PM  
Status Completed  
Attempt Score 20 out of 20 points  
Time Elapsed 49 minutes.  
Instructions

### Question 1

1 out of 1 points



If method 1 calls method 2 and passes an int variable as an argument, and if method 2 changes the value of its parameter variable, the change is reflected in method 1.

Selected Answer: ☒ FalseCorrect Answer: ☒ False

### Question 2

1 out of 1 points



When passing multiple arguments to a method, the order in which the arguments are listed in the call does not matter.

Selected Answer: ☒ FalseCorrect Answer: ☒ False

### Question 3

1 out of 1 points



Two methods in the same program can have a local variable with the same name.

Selected Answer: ☒ TrueCorrect Answer: ☒ True


### Question 4


1 out of 1 points

```
calcTotal();
```

The above line of code is a \_\_\_\_\_



Selected Answer:  method call

Correct Answer:  method call

### Question 5

1 out of 1 points

`public static void calcTotal()`  
The above line of code is a \_\_\_\_\_



Selected Answer:  method header

Correct Answer:  method header


### Question 6

1 out of 1 points

A parameter variable's scope is



Selected Answer:  all of the method for which it is a parameter


Correct Answer:  all of the method for which it is a parameter


### Question 7

1 out of 1 points

`public static double getValue(int a, float b, String c)`  
Consider the code above. What type of value does the method return?



Selected Answer:  double

Correct Answer:  double

### Question 8

1 out of 1 points


`public static void myMethod(int num)`


Consider the line above. Which of the following is a valid call to the method indicated?

- A. `myMethod(7);`
- B. `myMethod(6.2);`
- C.



`long x = 99;`  
`myMethod(x);`

Selected Answer:  A.  
A


Correct Answer:  A.  
A

### Question 9


1 out of 1 points

Which of the following javadoc tags do we NOT use to document a method?



Selected Answer: 

There are two or more that we don't use to document methods

Correct Answer: 

There are two or more that we don't use to document methods

### Question 10

1 out of 1 points


```
public static void main (String[] args)
```

In the above, the method modifier(s) is(are)



Selected Answer: 

public & static

Correct Answer: 


public & static

### Question 11


1 out of 1 points

Suppose a method named showValues accepts two int arguments. Which of the following is a correctly written method header?



Selected Answer: 

public static void showValues(int num1, int num2)

Correct Answer: 

public static void showValues(int num1, int num2)

### Question 12

1 out of 1 points

A program contains the method below. Write a statement that passes 4 to this method and assigns its return value to a variable called result.

```
public static int cube(int num)
{
    return num * num * num;
}
```



Selected Answer: `int result = cube(4);`

Correct Answer: 

```
int result = cube(4);
```

Response Feedback: [None Given]

### Question 13

1 out of 1 points

Write a call to a method named distance. The method will return a double (do something appropriate with it) and has two double parameter variables: rate and time.

Selected Answer: `double result = distance(1.0,2.0);`



Correct Answer:  `double x = distance(4.0, 3.2);`

Response Feedback: [None Given]


### Question 14

1 out of 1 points

Write the header for a method named days. The method will return an int and has three int parameter variables: years, months, and weeks.

Selected Answer: `public static int days(int years, int months, int weeks)`



Correct Answer:  `public static int days(int years, int months, int weeks)`

Response Feedback: [None Given]

### Question 15


2 out of 2 points

Write a method called showMeters. The method should accept an integer argument in kilometers and display on the console the number of meters in that many kilometers. The method will not return anything.

Selected Answer: `public static void showMeters(int kilometers)`

```
{  
    int meters = kilometers*1000;  
    System.out.println("There are " + meters + " meters in " +  
kilometers +  
    " kilometers.");  
}
```



Correct Answer:  `public static void showMeters(int km)  
{  
 System.out.println(km * 1000);  
}`

Response  
Feedback:

[None Given]

### Question 16

2 out of 2 points

Write a method called `getName`. The method has no parameters. It prompts for the user's name using `JOptionPane`. It returns the user's name.

Selected Answer: `public static String getName()`

Answer:

```
{  
  
    String name = JOptionPane.showInputDialog("Please enter your name: ");  
  
    return name;  
  
}
```



Correct

Answer:

```
✓  
public static String getName()  
{  
    return JOptionPane.showInputDialog("Enter your name");  
}
```

Response  
Feedback:

[None Given]

### Question 17

2 out of 2 points

Write a method called `times2`. The method should accept a double argument and return a double value that is two times the value of the argument.

Selected Answer: `public static double times2(double x)`

```
{  
  
    double y = x*2; return y;  
  
}
```



Correct Answer:

```
✓  
public static double times2(double n)  
{  
    return 2 * n;  
}
```

Response Feedback: [None Given]

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← OK



## Review Test Submission: HW 5

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test HW 5  
Started 6/25/13 11:14 PM  
Submitted 6/25/13 11:55 PM  
Status Completed  
Attempt Score 9 out of 10 points  
Time Elapsed 40 minutes.  
Instructions

### Question 1

1 out of 1 points



Two methods in the same program can have a local variable with the same name.

Selected Answer: True

Correct Answer: True

### Question 2

0 out of 1 points



If method 1 calls method 2 and passes an int variable as an argument, and if method 2 changes the value of its parameter variable, the change is reflected in method 1.

Selected Answer: True

Correct Answer: False

### Question 3

1 out of 1 points



When passing multiple arguments to a method, the order in which the arguments are listed in the call does not matter.

Selected Answer: False

Correct Answer: False

### Question 4

1 out of 1 points

```
public static void calcTotal()
```

The above line of code is a \_\_\_\_\_





Selected Answer:  method header

Correct Answer:  method header


### Question 5


1 out of 1 points

```
calcTotal();
```

The above line of code is a \_\_\_\_\_



Selected Answer:  method call

Correct Answer:  method call


### Question 6


1 out of 1 points

```
public static void main (String[] args)
```

In the above, the method modifier(s) is(are)



Selected Answer:  public & static

Correct Answer:  public & static


### Question 7


1 out of 1 points

```
public static double getValue(int a, float b, String c)
```

Consider the code above. What type of value does the method return?



Selected Answer:  double


Correct Answer:  double


### Question 8

1 out of 1 points

Suppose a method named showValues accepts two int arguments. Which of the following is a correctly written method header?



Selected Answer:  public static void showValues(int num1, int num2)

Correct Answer: 

```
public static void showValues(int num1, int num2)
```

### Question 9

1 out of 1 points

```
public static void myMethod(int num)
```

Consider the line above. Which of the following is a valid call to the method indicated?

- A. myMethod(7);
- B. myMethod(6.2);
- C.



```
long x = 99;  
myMethod(x);
```

Selected Answer: A.  
A

Correct Answer: A.  
A

### Question 10

1 out of 1 points

Which of the following javadoc tags do we NOT use to document a method?



Selected Answer:   
There are two or more that we don't use to document methods

Correct Answer:   
There are two or more that we don't use to document methods

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← OK



## Review Test Submission: Q 6


User Abdus Samad Khan  
Course Java Programming I- SU13  
Test Q 6  
Started 7/4/13 2:35 AM  
Submitted 7/4/13 3:21 AM  
Status Completed  
Attempt Score 20 out of 20 points  
Time Elapsed 46 minutes.  
Instructions


### Question 1

1 out of 1 points

An object stores its state in



Selected Answer:  fields

Correct Answer:  fields

### Question 2

1 out of 1 points

Consider the following UML diagram. What is the name of the class?



```
+-----+
| Rectangle |
+-----+
| -length:double |
| -width:double |
+-----+
| +Rectangle() |
| +Rectangle(len:double, w:double) |
| +Rectangle(side:double) |
| +setLength(len:double):void |
| +setWidth(w:double):void |
| +getLength():double |
| +getWidth():double |
| +getArea():double |
| +getPerimeter():double |
| +isSquare():boolean |
+-----+
```

Selected Answer:

## Rectangle

Correct Answer:



Rectangle

Response Feedback: [None Given]

### Question 3

1 out of 1 points

Consider the following UML diagram. Write a single statement that creates an object of the class. The object should be named: box. Set the length to 7.3 and the width to 3.6.



```
+-----+
| Rectangle |
+-----+
| -length:double |
| -width:double |
+-----+
| +Rectangle() |
| +Rectangle(len:double, w:double) |
| +Rectangle(side:double) |
| +setLength(len:double):void |
| +setWidth(w:double):void |
| +getLength():double |
| +getWidth():double |
| +getArea():double |
| +getPerimeter():double |
| +isSquare():boolean |
+-----+
```

Selected Answer: Rectangle box = new Rectangle(7.3,3.6);

Correct Answer:



Rectangle box = new Rectangle(7.3, 3.6);

Response Feedback: [None Given]

### Question 4

1 out of 1 points

Assume there is a class named MyClass. Write the header for the no-arg constructor.

Selected Answer: public MyClass()



Correct Answer:



public MyClass()

Response Feedback: [None Given]

### Question 5

2 out of 2 points

We will assume that a rectangle cannot have sides of less than 0. Given the following UML diagram, write the `setLength` method. Check for negative values. If a negative value is detected, set the field to 0. Otherwise, use the parameter value.

```
+-----+
| Rectangle |
+-----+
| -length:double |
| -width:double |
+-----+
| +Rectangle() |
| +Rectangle(len:double, w:double) |
| +Rectangle(side:double) |
| +setLength(len:double):void |
| +setWidth(w:double):void |
| +getLength():double |
| +getWidth():double |
| +getArea():double |
| +getPerimeter():double |
| +isSquare():boolean |
+-----+
```

Selected Answer:     `public void setLength(double len)`



```
{
    if (len < 0)
    {
        length = 0;
    }
    else
    {
        length = len;
    }
}
```

Correct Answer:



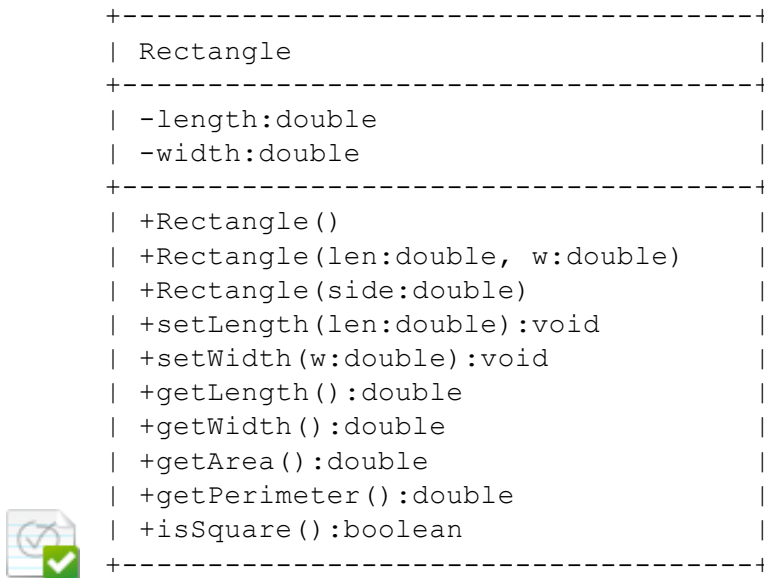
```
public void setLength(double len)
{
    if (len < 0)
        length = 0;
    else
        length = len;
}
```

Response Feedback: [None Given]

## Question 6

2 out of 2 points

A square is a rectangle where the length and width are the same. Given the following UML diagram, write the one argument constructor that sets both sides of a square.



Selected Answer: `public Rectangle(double side)`

```
{
    length = side;
    width = side;
}
```

Correct Answer:



```
public Rectangle(double side)
{
    length = side;
    width = side;
}
```

Response Feedback: [None Given]

## Question 7

1 out of 1 points

The signature of a method includes: the name, parameters, and return type.



Selected Answer: ☒ False

Correct Answer: ☒ False

## Question 8

1 out of 1 points

Consider the following UML diagram. How many constructors are there?



```
+-----+
| Rectangle                                     |
+-----+
| -length:double                             |
| -width:double                              |
+-----+
| +Rectangle()                               |
| +Rectangle(len:double, w:double)           |
| +Rectangle(side:double)                    |
| +setLength(len:double):void                |
| +setWidth(w:double):void                  |
| +getLength():double                        |
| +getWidth():double                         |
| +getArea():double                          |
| +getPerimeter():double                     |
| +isSquare():boolean                        |
+-----+
```

Selected Answer:

3

Correct Answer:

3

## Question 9

1 out of 1 points

Consider the following UML diagram. How many data members are there?



```
+-----+
| Rectangle                                     |
+-----+
| -length:double                             |
| -width:double                              |
+-----+
| +Rectangle()                               |
| +Rectangle(len:double, w:double)           |
| +Rectangle(side:double)                    |
| +setLength(len:double):void                |
| +setWidth(w:double):void                  |
| +getLength():double                        |
| +getWidth():double                         |
| +getArea():double                          |
| +getPerimeter():double                     |
| +isSquare():boolean                        |
+-----+
```

Selected Answer:

2

Correct Answer:


2


### Question 10

1 out of 1 points

This is a method that is automatically called when an instance of a class is created.



Selected Answer:  constructor

Correct Answer:  constructor

### Question 11

1 out of 1 points

If you do not write any constructors for a class, you will automatically get one of these.



Selected Answer:  default constructor


Correct Answer:  default constructor


### Question 12

1 out of 1 points

This keyword causes an object to be created in memory.



Selected Answer:  new


Correct Answer:  new


### Question 13

1 out of 1 points

This type of method gets the value of a field, but does not change it



Selected Answer:  accessor

Correct Answer:  accessor

### Question 14

1 out of 1 points


Consider the following UML diagram. How many public members are there?


```
+-----+
| Rectangle |
+-----+
| -length:double |
```





```
| -width:double |
+-----+
| +Rectangle() |
| +Rectangle(len:double, w:double) |
| +Rectangle(side:double) |
| +setLength(len:double):void |
| +setWidth(w:double):void |
| +getLength():double |
| +getWidth():double |
| +getArea():double |
| +getPerimeter():double |
| +isSquare():boolean |
+-----+
```

Selected Answer:   
10

Correct Answer:   
10

## Question 15

1 out of 1 points

Given the following UML diagram, write a statement that will set the length of a Rectangle object named box to 1.5. Assume that the box object has been initialized.



```
+-----+
| Rectangle |
+-----+
| -length:double |
| -width:double |
+-----+
| +Rectangle() |
| +Rectangle(len:double, w:double) |
| +Rectangle(side:double) |
| +setLength(len:double):void |
| +setWidth(w:double):void |
| +getLength():double |
| +getWidth():double |
| +getArea():double |
| +getPerimeter():double |
| +isSquare():boolean |
+-----+
```

Selected Answer: box.setLength(1.5);

Correct Answer:   
box.setLength(1.5);

Response Feedback: [None Given]

## Question 16

2 out of 2 points

Given the following UML diagram, write the `getPerimeter` method.

```
+-----+
| Rectangle |
+-----+
| -length:double |
| -width:double |
+-----+
| +Rectangle() |
| +Rectangle(len:double, w:double) |
| +Rectangle(side:double) |
| +setLength(len:double):void |
| +setWidth(w:double):void |
| +getLength():double |
| +getWidth():double |
| +getArea():double |
| +getPerimeter():double |
| +isSquare():boolean |
+-----+
```



Selected Answer: `public double getPerimeter()`

```
{
    double perimeter;
    perimeter = (2*length)+(2*width);
    return perimeter;
}
```

Correct Answer:



```
public double getPerimeter()
{
    return 2 * length + 2 * width;
}
```

grading:  
1 pt method header  
1 pt calculation & return


Response Feedback: [None Given]

## Question 17


1 out of 1 points

The default constructor has \_\_\_\_ arguments



Selected Answer: 

0

Correct Answer: 

0

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← OK



## Review Test Submission: HW 6

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test HW 6  
Started 6/30/13 4:45 PM  
Submitted 6/30/13 5:09 PM  
Status Completed  
Attempt Score 8 out of 10 points  
Time Elapsed 23 minutes.  
Instructions

### Question 1

1 out of 1 points

Hiding internal state and requiring all interaction to be performed through an object's methods is known as



Selected Answer: data encapsulation

Correct Answer: data encapsulation

### Question 2

1 out of 1 points

An object stores its state in



Selected Answer: fields

Correct Answer: fields

### Question 3

1 out of 1 points

An example of a bicycle's behavior is



Selected Answer: applying brakes


Correct Answer: applying brakes


#### Question 4

1 out of 1 points

An object exposes its behavior through



Selected Answer:  methods

Correct Answer:  methods


#### Question 5

1 out of 1 points

Bundling code into individual software objects provides a number of benefits, including all EXCEPT



Selected Answer:  Vote counting


Correct Answer:  Vote counting


#### Question 6

0 out of 1 points

"Riding" the bicycle class in the tutorial, you can do any of the following with a single method call except



Selected Answer:  speed up some


Correct Answer:  shift up one gear


#### Question 7

1 out of 1 points

Two of the bicycle class methods affect the same field. That field is:



Selected Answer:  speed


Correct Answer:  speed


#### Question 8

1 out of 1 points

All but one of the bicycle class methods could be considered mutators. (See our text for the definition of mutators.) The non-mutator method is:



Selected Answer:  printStates


Correct Answer:   
printStates


### Question 9

1 out of 1 points

The bicycle class has \_\_\_\_\_ fields



Selected Answer:   
3


Correct Answer:   
3


### Question 10

0 out of 1 points

The bicycle class has \_\_\_\_\_ methods.



Selected Answer:   
4

Correct Answer:   
5

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← OK



## Review Test Submission: Q 8

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test Q 8  
Started 7/13/13 7:09 AM  
Submitted 7/13/13 8:08 AM  
Status Completed  
Attempt Score 19 out of 20 points  
Time Elapsed 59 minutes.  
Instructions Watch those array indices!

### Question 1

1 out of 1 points



You want to write a method that will find the average of all the values in an array of doubles. An enhanced for loop will work.



Selected Answer: True

Correct Answer: True

### Question 2

1 out of 1 points



An array of Strings is always a 2D array.



Selected Answer: False

Correct Answer: False

### Question 3

1 out of 1 points



An array of objects can contain any mixture of objects of any class.



Selected Answer: False

Correct Answer: False

### Question 4

1 out of 1 points



Given two arrays named arrayA and arrayB, the expression (arrayA == arrayB) will

Selected Answer:   
none of the above

Correct Answer:

none of the above


### Question 5

1 out of 1 points


```
double[] numbers = {1.2, 2.3, 3.4, 4.5, 5.6};
double z = numbers[0];
for (double x : numbers)
{
    if (x < z)
        z = x;
}
```



The code above will:

Selected Answer: 

find the smallest value in the array

Correct Answer: 


find the smallest value in the array

### Question 6


0 out of 1 points

Given an array of Strings named strArray, what is the correct way to find the length of the fourth string in the array?



Selected Answer: 

none of the above

Correct Answer: 

strArray[3].length()

### Question 7


1 out of 1 points

Which of the statements below is true, given the following declaration:

```
Rectangle[] boxes = new Rectangle[4];
```



- A. The variable boxes is a reference to a Rectangle
- B. The variable boxes[0] is reference to a Rectangle
- C. Space for 4 Rectangles has been allocated.

Selected Answer:  B.

B

Correct Answer:  B.

B

### Question 8


1 out of 1 points




```
int[] fred = { 3, 997, -6, 0 };
```

Consider the declaration above. What is the value of fred[3]?



Selected Answer:   
0

Correct Answer:   
0


## Question 9


1 out of 1 points

```
String[] months = {  
    "January", "February", "March", "April", "May", "June",  
    "July", "August", "September", "October", "November", "December" };  
int[] days = {  
    31, 28, 31, 30, 31, 30,  
    31, 31, 30, 31, 30, 31 };
```



Given the declarations above, the expression months[0].length() evaluates to

Selected Answer:   
7

Correct Answer:   
7


## Question 10


0 out of 1 points

```
final int ROWS = 3;  
final int COLS = 4;  
Rectangle[][] scores = new Rectangle[ROWS][COLS];
```



Consider the declarations above. How many Rectangles have been allocated?

Selected Answer:   
12

Correct Answer:   
none of the above

## Question 11

1 out of 1 points

```
int[] list2 = new int[4];
```

Consider the declaration above. Which of the following is an int?



- A) list2
- B) list2[0]
- C) list2[4]

Selected Answer: 

B

Correct Answer:



B

## Question 12

1 out of 1 points

What does it do? Describe the purpose of the method and the method's arguments.

```
public void mystery2(int[] a, int b)
{
    for (int i=0; i<a.length; i++)
        a[i] = b;
}
```

Selected Answer: This method has two arguments. The first argument is an array of ints, which is called a. The second argument is an int which is called b.



This method replaces each index of the array, with the value of b.

So if the array given was `int[] a = {1,2,3}` and the int given was `int b = 4`, this method would replace each value in the array with the int, which is 4. So after the method has finished running, the array a would be `{4,4,4}`.

Correct



Answer: sets all of the values of an int array a to b

Response Feedback: This method replaces each ~~index~~ *value* of the array, with the value of b.

## Question 13

1 out of 1 points

Write a declaration of an array that contains the values "John" and "Paul". (Name the array anything you want.)

Selected Answer: `String[] names = {"John", "Paul"};`



Correct Answer:



```
String[] firstTwoBeatles = {"John", "Paul"};
```

Response Feedback: [None Given]

## Question 14

1 out of 1 points

The code fragment below calls the method `addEmUp`. Assume `scores` is an array of ints. Write a method header (just the header, not the body) for `addEmUp`.

```
int total = addEmUp(scores);
```

Selected `public int addEmUp(int[] scores)`



Answer:



Correct

Answer:



```
public int addEmUp(int[] scores)
```

(You can use either public or private. The return type and the argument type are important, the argument name is not.)

Response [None Given]

Feedback:

## Question 15

3 out of 3 points

Write a method (header and body) that sets the first and last elements of the array to 0 and leaves the rest alone. The method accepts as an argument an array of double variables. The method should be public. The method does not return anything. (Method/variable names can be anything you want.)

Selected Answer: `public void q15(double[] vars)`

```
{  
    vars[0] = 0;  
    vars[(vars.length - 1)] = 0;  
}
```



Correct Answer:



```
public void anythingYouWant(double[] a)  
{  
    a[0] = a[a.length-1] = 0.0;  
}
```

Response Feedback: [None Given]

## Question 16

4 out of 3 points

Write a method (header and body) that finds the average of all values in a double array. The array will be the argument to the method, and the ~~total~~ average (also a double) will be the return value. For a bonus point, use an enhanced for loop, or add a comment explaining why an enhanced for loop won't work.

Selected Answer: `public double q16(double[] vars)`

Answer:

```
{  
    double sum = 0;  
    for (double v : vars)  
    {  
        sum +=v;  
    }
```



```
double average = sum / vars.length;  
return average;  
}
```

Correct  
Answer:



```
public double avg(double[] a)  
{  
    double t = 0;  
    for (double x : a)  
        t += x;  
    return t/a.length;  
}
```

grading: 1 pt for the header, one for declaration/initialization of the total variable and the return value, one for the for loop including the += part, one extra if you correctly used an enhanced for loop like this one.

Response [None Given]

Feedback:

Monday, July 22, 2013 10:00:39 PM EDT

← OK



## Review Test Submission: HW 8

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test HW 8  
Started 7/8/13 10:57 PM  
Submitted 7/9/13 11:58 PM  
Status Completed  
Attempt Score 8 out of 10 points  
Time Elapsed 25 hours, 0 minute.  
Instructions

### Question 1

1 out of 1 points

Given two arrays named arrayA and arrayB, the expression (arrayA == arrayB) will



Selected Answer: none of the above

Correct Answer: none of the above

### Question 2

0 out of 1 points

```
double[] numbers = {1.2, 2.3, 3.4, 4.5, 5.6};  
double z = numbers[0];  
for (double x : numbers)  
{  
    if (x > z)  
        z = x;  
}
```



The code above will:

Selected Answer: none of the above

Correct Answer: find the largest value in the array


### Question 3


1 out of 1 points

```
double[] numbers = {1.2, 2.3, 3.4, 4.5, 5.6};
double z = 0;
for (double x : numbers)
{
    z += x;
}
```



The code above will:

Selected Answer:  sum the array


Correct Answer:  sum the array


#### Question 4

1 out of 1 points



An array of Strings is always a 2D array.

Selected Answer:  False


Correct Answer:  False

#### Question 5

1 out of 1 points

Given an array of Strings named strArray, what is the correct way to find the length of the third string in the array?



Selected Answer:  none of the above


Correct Answer:  none of the above

#### Question 6

1 out of 1 points



An array of objects is really an array of references to the objects.

Selected Answer:  True


Correct Answer:  True


#### Question 7

0 out of 1 points



An array of objects can contain any mixture of objects of any class.

Selected Answer:  True

Correct Answer:  False

### Question 8


1 out of 1 points


Which of the statements below is true, given the following declaration:

```
Rectangle[ ] boxes = new Rectangle[4];
```



- A. The variable boxes is a reference to a Rectangle
- B. The variable boxes[0] is reference to a Rectangle
- C. Space for 4 Rectangles has been allocated.

Selected Answer:   
B

Correct Answer:   
B


### Question 9

1 out of 1 points



An enhanced for loop can be used to copy an array.

Selected Answer:  True

Correct Answer:  False


### Question 10


1 out of 1 points

```
String[] months = {  
    "January", "February", "March", "April", "May", "June",  
    "July", "August", "September", "October", "November", "December" };  
int[] days = {  
    31, 28, 31, 30, 31, 30,  
    31, 31, 30, 31, 30, 31 };
```



Given the declarations above, the expression months.length evaluates to

Selected Answer:   
12

Correct Answer:   
12

Monday, July 22, 2013 10:00:39 PM EDT

← OK



## Review Test Submission: Q 9

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test Q 9  
Started 7/21/13 6:38 PM  
Submitted 7/21/13 7:31 PM  
Status Completed  
Attempt Score 19 out of 20 points  
Time Elapsed 53 minutes.  
Instructions


### Question 1


0 out of 1 points

If you were going to create a class that kept track of how many objects of the class were created, which of the following modifiers would you use for the field?

- A) private
- B) static
- C) final



Selected Answer:   
A

Correct Answer:   
A & B

Response Feedback: This is a description of the class Countable that opened chapter 9. If you're going to keep track of something across objects, it would have to be `static`. It couldn't be `final`, or it couldn't be changed. We usually make state variables (attributes) `private`, and we did in the Countable class.

### Question 2

1 out of 1 points


Consider the following UML diagram. How many methods accept objects (as parameters)?


```
+-----+
| Circle |
+-----+
| - radius:double |
```





```
+-----+
| + Circle(r : int) :          |
| + getArea() : double        |
| + getRadius() : double      |
| + toString() : String       |
| + equals(c : Circle) : boolean |
| + greaterThan(c : Circle) : boolean |
| + box() : Rectangle         |
+-----+
```

Selected Answer:   
2

Correct Answer:   
2

### Question 3

1 out of 1 points

When an object is passed as an argument to a method, this is actually passed.



Selected Answer:   
a reference to the object


Correct Answer:   
a reference to the object


### Question 4

1 out of 1 points

A method cannot return a reference to an object



Selected Answer:  False

Correct Answer:  False


### Question 5


1 out of 1 points

Consider the following UML diagram. Which method is most likely to need the 'new' operator?



```
+-----+
| Circle                               |
+-----+
| - radius:double                     |
+-----+
| + Circle(r : int) :                 |
| + getArea() : double                |
| + getRadius() : double              |
| + toString() : String               |
| + equals(c : Circle) : boolean      |
| + greaterThan(c : Circle) : boolean |
| + box() : Rectangle                 |
+-----+
```

Selected Answer:   
box


Correct Answer:   
box

### Question 6

1 out of 1 points

Consider the lecture code ReturnObject.java. The BankAccount reference object is declared, but there's no 'new' for it in method main. How does this work?



Selected Answer:   
There's a new in the getAccount method.


Correct Answer:   
There's a new in the getAccount method.


### Question 7

1 out of 1 points

The purpose of the toString method is to print the state of the object to the screen.



Selected Answer:  False

Correct Answer:  False

### Question 8

1 out of 1 points

Consider the following UML diagrams. Which class has a copy constructor?

```
+-----+
| Circle |
+-----+
| - radius : double |
+-----+
| + Circle(radius : double) : |
| + setRadius(radius : double) : void |
| + getRadius() : double |
+-----+
```


```
+-----+
| Cylinder |
+-----+
| - base : Circle |
| - height : double |
+-----+
| + Cylinder() : |
| + Cylinder(base : Circle, height : double) : |
| + Cylinder(cylinder : Cylinder) : |
| + setBase(base : Circle) : void |
| + getBase() : Circle |
| + setHeight(height : double) : void |
| + getHeight() : double |
+-----+
```




```

| + getVolume() : double
| + getSurfaceArea() : double
| + toString() : String
| + copy() : Cylinder
| + equals(cylinder : Cylinder) : boolean
+-----+

```

Selected Answer:  Cylinder

Correct Answer:  Cylinder


## Question 9


1 out of 1 points

Which of the following standard methods requires an object as a argument?

- A) copy constructor
- B) copy method
- C) equals method



Selected Answer:  A & C

Correct Answer:  A & C

## Question 10

1 out of 1 points

Consider the following UML diagrams. Which class is an aggregate class?

```

+-----+
| Circle
+-----+
| - radius : double
+-----+
| + Circle(radius : double) :
| + setRadius(radius : double) : void
| + getRadius() : double
+-----+

```

```

+-----+
| Cylinder
+-----+
| - base : Circle
| - height : double
+-----+
| + Cylinder() :
| + Cylinder(base : Circle, height : double) :
| + Cylinder(cylinder : Cylinder) :
| + setBase(base : Circle) : void
| + getBase() : Circle
+-----+


```




```

| + setHeight(height : double) : void
| + getHeight() : double
| + getVolume() : double
| + getSurfaceArea() : double
| + toString() : String
| + copy() : Cylinder
| + equals(cylinder : Cylinder) : boolean
+-----+

```

Selected Answer:   
Cylinder

Correct Answer:   
Cylinder

## Question 11

1 out of 1 points

Consider the following UML diagram. Which methods will need to copy an object to maintain data privacy/security?





```

+-----+
| Cylinder
+-----+
| - base : Circle
| - height : double
+-----+
| + Cylinder() :
| + Cylinder(base : Circle, height : double) :
| + Cylinder(cylinder : Cylinder) :
| + setBase(base : Circle) : void
| + getBase() : Circle
| + setHeight(height : double) : void
| + getHeight() : double
| + getVolume() : double
| + getSurfaceArea() : double
| + toString() : String
| + copy() : Cylinder
| + equals(cylinder : Cylinder) : boolean
+-----+

```

- A) getBase
- B) getHeight
- C) getVolume

Selected Answer:   
A

Correct Answer:   
A

## Question 12

1 out of 1 points

Consider the following UML diagrams. How many of the methods in Cylinder must to use 'this' to avoid shadowing?

```
+-----+
| Circle                               |
+-----+
| - radius : double                   |
+-----+
| + Circle(radius : double) :         |
| + setRadius(radius : double) : void |
| + getRadius() : double              |
+-----+
```



```
+-----+
| Cylinder                             |
+-----+
| - base : Circle                     |
| - height : double                  |
+-----+
| + Cylinder() :                     |
| + Cylinder(base : Circle, height : double) :
| + Cylinder(cylinder : Cylinder) :
| + setBase(base : Circle) : void
| + getBase() : Circle
| + setHeight(height : double) : void
| + getHeight() : double
| + getVolume() : double
| + getSurfaceArea() : double
| + toString() : String
| + copy() : Cylinder
| + equals(cylinder : Cylinder) : boolean
+-----+
```

Selected Answer: more than one

Correct Answer: more than one

### Question 13

1 out of 1 points

This enum method returns the position of an enum constant in the declaration.



Selected Answer: ordinal

Correct Answer: ordinal

### Question 14

1 out of 1 points

The Java Virtual Machine periodically performs this process, which automatically removes

unreferenced objects from memory.



Selected Answer:



garbage collection

Correct Answer:



garbage collection

## Question 15

2 out of 2 points

Consider the UML diagrams below. Write a toString method (not shown) for the Circle class.

```
+-----+
| Circle                               |
+-----+
| - radius : double                   |
+-----+
| + Circle(radius : double) :        |
| + setRadius(radius : double) : void |
| + getRadius() : double              |
+-----+
```

```
+-----+
| Cylinder                             |
+-----+
| - base : Circle                     |
| - height : double                   |
+-----+
| + Cylinder() :                      |
| + Cylinder(base : Circle, height : double) : |
| + Cylinder(cylinder : Cylinder) :      |
| + setBase(base : Circle) : void        |
| + getBase() : Circle                  |
| + setHeight(height : double) : void    |
| + getHeight() : double                 |
| + getVolume() : double                 |
| + getSurfaceArea() : double            |
| + toString() : String                  |
| + copy() : Cylinder                   |
| + equals(cylinder : Cylinder) : boolean |
+-----+
```



Selected Answer:

```
public String toString()
```

```
{
```

```
    return "Radius = " + this.radius;
```

```
}
```

Correct Answer:



```
public String toString()
```

```
{
```

```
    return "radius: " + radius;
```

}

Response Feedback: [None Given]

## Question 16

2 out of 2 points

Consider the following UML diagrams. Write the `setHeight` method. Use 'this'.

```
+-----+
| Circle                               |
+-----+
| - radius : double                   |
+-----+
| + Circle(radius : double) :        |
| + setRadius(radius : double) : void |
| + getRadius() : double              |
+-----+
```

```
+-----+
| Cylinder                             |
+-----+
| - base : Circle                     |
| - height : double                   |
+-----+
| + Cylinder() :                      |
| + Cylinder(base : Circle, height : double) :
| + Cylinder(cylinder : Cylinder) :
| + setBase(base : Circle) : void
| + getBase() : Circle
| + setHeight(height : double) : void
| + getHeight() : double
| + getVolume() : double
| + getSurfaceArea() : double
| + toString() : String
| + copy() : Cylinder
| + equals(cylinder : Cylinder) : boolean
+-----+
```



Selected Answer: `public void setHeight(double height)`

```
{
    this.height = height;
}
```

Correct Answer: 

```
public void setHeight(double height)
{
    this.height = height;
}
```

Response Feedback: [None Given]

### Question 17


1 out of 1 points

Consider the following UML diagram. Write a call to the copy constructor.



```
+-----+
| Rectangle |
+-----+
| -length:double |
| -width:double |
+-----+
| +Rectangle() |
| +Rectangle(len:double, w:double) |
| +Rectangle(side:double) |
| +Rectangle(r:Rectangle) |
| +setLength(len:double):void |
| +setWidth(w:double):void |
| +getLength():double |
| +getWidth():double |
| +getArea():double |
| +getPerimeter():double |
| +isSquare():boolean |
| +toString():String |
| +equals(r:Rectangle):boolean |
| +copy():Rectangle |
+-----+
```

Selected Answer:     Rectangle box2 = new Rectangle(box1);

Correct Answer:      Rectangle box2 = new Rectangle(box1);

Response Feedback: [None Given]

### Question 18

1 out of 1 points

Consider the UML diagrams below. Assume you have two Cylinders named can1 and can2. Write an if statement that prints "the cans are the same" if the two cans are equal.

```
+-----+
| Circle |
+-----+
| - radius : double |
+-----+
| + Circle(radius : double) : |
| + setRadius(radius : double) : void |
| + getRadius() : double |
+-----+

+-----+
| Cylinder |
+-----+
```






```
| - base : Circle  
| - height : double  
+-----+  
| + Cylinder() :  
| + Cylinder(base : Circle, height : double) :  
| + Cylinder(cylinder : Cylinder) :  
| + setBase(base : Circle) : void  
| + getBase() : Circle  
| + setHeight(height : double) : void  
| + getHeight() : double  
| + getVolume() : double  
| + getSurfaceArea() : double  
| + toString() : String  
| + copy() : Cylinder  
| + equals(cylinder : Cylinder) : boolean  
+-----+
```

Selected Answer:     if (can1.equals(can2))

```
{  
    System.out.println("the cans are the same");  
}
```

Correct Answer:     

```
if (can1.equals(can2))  
{  
    System.out.println("The cans are the same.");  
}
```

Response Feedback: [None Given]

Monday, July 22, 2013 10:00:39 PM EDT

← OK



## Review Test Submission: HW 9

User Abdus Samad Khan  
Course Java Programming I- SU13  
Test HW 9  
Started 7/13/13 10:36 AM  
Submitted 7/16/13 11:45 PM  
Status Completed  
Attempt Score 14.5 out of 15 points  
Time Elapsed 85 hours, 8 minutes.  
Instructions

### Question 1

1 out of 1 points

This type of method cannot access any non-static member variables in its own class.



Selected Answer: static

Correct Answer: static

### Question 2

1 out of 1 points

Consider the following UML diagram. How many methods accept objects (as parameters)?



```
+-----+
| Circle |
+-----+
| - radius:double |
+-----+
| + Circle(r : int) : |
| + getArea() : double |
| + getRadius() : double |
| + toString() : String |
| + equals(c : Circle) : boolean |
| + greaterThan(c : Circle) : boolean |
| + box() : Rectangle |
+-----+
```

Selected Answer: 2

Correct Answer: 2


### Question 3


1 out of 1 points

Consider the following UML diagram. How many methods return objects?



```
+-----+
| Circle                               |
+-----+
| - radius:double                     |
+-----+
| + Circle(r : int) :                 |
| + getArea() : double                |
| + getRadius() : double              |
| + toString() : String               |
| + equals(c : Circle) : boolean      |
| + greaterThan(c : Circle) : boolean |
| + box() : Rectangle                 |
+-----+
```

Selected Answer:   
2

Correct Answer:   
2

### Question 4

2 out of 2 points

Consider the following UML diagram. Write a reasonable toString method..

```
+-----+
| Rectangle                           |
+-----+
| -length:double                     |
| -width:double                      |
+-----+
| +Rectangle()                       |
| +Rectangle(len:double, w:double)   |
| +Rectangle(side:double)            |
| +Rectangle(r:Rectangle)            |
| +setLength(len:double):void         |
| +setWidth(w:double):void           |
| +getLength():double                |
| +getWidth():double                 |
| +getArea():double                  |
| +getPerimeter():double              |
| +isSquare():boolean                |
| +toString():String                 |
| +equals(r:Rectangle):boolean        |
| +copy():Rectangle                  |
+-----+
```




Selected Answer: `public String toString()  
{`

```

String str = "Rectangle length: " + getLength() +
            "\nRectangle width: " + getWidth() +
            "\nRectangle area: " + getArea() +
            "\nRectangle perimeter: " + getPerimeter();

return str;
}

```

Correct Answer: 

```

public String toString()
{
    return "Length = " + this.length + "\nWidth = " + this.width;
}

```

Response in general, just report on attributes, not calculated values  
Feedback:

## Question 5

2 out of 2 points

Consider the UML diagrams below. Write a reasonable equals method (not shown) for the Circle class.

```

+-----+
| Circle |
+-----+
| - radius : double |
+-----+
| + Circle(radius : double) : |
| + setRadius(radius : double) : void |
| + getRadius() : double |
+-----+

```

```


+-----+
| Cylinder |
+-----+
| - base : Circle |
| - height : double |
+-----+
| + Cylinder() : |
| + Cylinder(base : Circle, height : double) : |
| + Cylinder(cylinder : Cylinder) : |
| + setBase(base : Circle) : void |
| + getBase() : Circle |
| + setHeight(height : double) : void |
| + getHeight() : double |
| + getVolume() : double |
| + getSurfaceArea() : double |
| + toString() : String |
| + copy() : Cylinder |
| + equals(cylinder : Cylinder) : boolean |

```



Selected Answer: `public boolean equals(Circle circle)`

```
{  
    boolean status;  
    if (radius == circle.radius)  
        status = true;  
    else  
        status = false;  
    return status;  
}
```

Correct Answer: 

```
public boolean equals(Circle c)  
{  
    return this.radius == c.radius;  
}
```

Response Feedback: [None Given]

## Question 6

1 out of 1 points

Consider the following UML diagram. Write a call to the copy constructor.



```
+-----+  
| Rectangle |  
+-----+  
| -length:double |  
| -width:double |  
+-----+  
| +Rectangle() |  
| +Rectangle(len:double, w:double) |  
| +Rectangle(side:double) |  
| +Rectangle(r:Rectangle) |  
| +setLength(len:double):void |  
| +setWidth(w:double):void |  
| +getLength():double |  
| +getWidth():double |  
| +getArea():double |  
| +getPerimeter():double |  
| +isSquare():boolean |  
| +toString():String |  
| +equals(r:Rectangle):boolean |  
| +copy():Rectangle |  
+-----+
```

Selected Answer: `Rectangle rectangle1 = new Rectangle(1.0,2.0);`

```
Rectangle rectangle2 = new Rectangle(rectangle1);
```

Correct Answer:



```
Rectangle box2 = new Rectangle(box1);
```

Response Feedback: [None Given]

## Question 7

2.5 out of 3 points

Consider the following UML diagrams. Write the 2-arg constructor for Cylinder. Use a deep copy.

```
+-----+
| Circle                                |
+-----+
| - radius : double                    |
+-----+
| + Circle(radius : double) :         |
| + setRadius(radius : double) : void |
| + getRadius() : double               |
+-----+
```

```
+-----+
| Cylinder                              |
+-----+
| - base : Circle                      |
| - height : double                   |
+-----+
| + Cylinder() :                      |
| + Cylinder(base : Circle, height : double) : |
| + Cylinder(cylinder : Cylinder) :      |
| + setBase(base : Circle) : void        |
| + getBase() : Circle                   |
| + setHeight(height : double) : void    |
| + getHeight() : double                 |
| + getVolume() : double                 |
| + getSurfaceArea() : double            |
| + toString() : String                 |
| + copy() : Cylinder                   |
| + equals(cylinder : Cylinder) : boolean |
+-----+
```



Selected Answer: `public Cylinder(Circle base, double height)`

```
{
    this.height = height;
    this.base = new Cylinder(base);
}
```

Correct Answer:



```
public Cylinder(Circle base, double height)
{
    // show the deep copy here!
```

```

        this.base = new Circle(base.getRadius());
        this.height = height;
    }

```

Response: `this.base = new CylinderCircle(base);`  
 Feedback:

## Question 8

2 out of 2 points

Consider the following UML diagrams. Write the `setRadius` method. Use 'this'.

```

+-----+
| Circle                                |
+-----+
| - radius : double                    |
+-----+
| + Circle(radius : double) :         |
| + setRadius(radius : double) : void |
| + getRadius() : double               |
+-----+

```

```

+-----+
| Cylinder                             |
+-----+
| - base : Circle                     |
| - height : double                   |
+-----+
| + Cylinder() :                      |
| + Cylinder(base : Circle, height : double) : |
| + Cylinder(cylinder : Cylinder) :      |
| + setBase(base : Circle) : void        |
| + getBase() : Circle                  |
| + setHeight(height : double) : void    |
| + getHeight() : double                 |
| + getVolume() : double                 |
| + getSurfaceArea() : double            |
| + toString() : String                 |
| + copy() : Cylinder                   |
| + equals(cylinder : Cylinder) : boolean |
+-----+

```




Selected Answer: `public void setRadius(double radius)`

```

{
    this.radius = radius;
}

```

Correct Answer: 

```

public void setRadius(double radius)
{
    this.radius = radius;
}

```


Response Feedback: [None Given]


### Question 9

1 out of 1 points

This enum method returns the position of an enum constant in the declaration.



Selected Answer:  ordinal


Correct Answer:  ordinal


### Question 10

1 out of 1 points

If a class has this method, it is called automatically just before an instance of the class is destroyed by the Java Virtual Machine.



Selected Answer:  finalize

Correct Answer:  finalize

Monday, July 22, 2013 10:00:39 PM EDT

← OK