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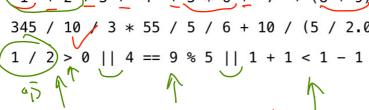
O expressions

Language/Type:

Java expressions mod

Whitaker Brand (on 2010/12/28)

Trace the evaluation of the following expressions, and give their resulting values.



Submit

Left Right

more 2 11 2 openino. 1 recommend min recommend	
Operators	Associativity
011->.	left to right
! ~ ++ + - * & (type) sizeof stringof offsetof xlate	right to left
* / %	left to right
+-	left to right
<< >>	left to right
< <= > >=	left to right
!-	left to right
&	left to right
^	left to right
	left to right
8.6	left to right
^^	left to right
	left to right
?:	right to left
= += -= *= /= %= &= ^= = <<= >>=	right to left
,	left to right

```
public class ParameterMystery {
   public static void main(String[] args) {
        String x = "java";
        String y = "tyler";
        String z = "tv";
        String rugby = "hamburger";
        String java = "donnie";

        hamburger(x, y, z);
        hamburger(z, x, y);
        hamburger(rugby", z, java);
        hamburger(y, rugby, "x");
        hamburger(y, y, "java");
}

public static void hamburger(String y, String z, String x) {
        System.out.println(z + " and " + x + " like " + y);
    }
}
```

Write the output of each of the following calls, as it would appear on the console.

```
hamburger(x, y, z);
hamburger(z, x, y);
hamburger("rugby", z, java);
hamburger(y, rugby, "x");
hamburger(y, y, "java");
                                                                Given the following method:
                                                                 public static void mystery (int i, int j) {
                                                                      while (i != 0 && j != 0) {
         O if/else simulation
                                                                         i = i / j;
          Language/Type: 🕹 Java if/else mod mystery
                                                                         0j = (j - 1) / 2;
          For each call of the method below write the value that is returned:

public static in mystery(int a, int b) {
                                                                           System.out.print(i + " " + j + " ");
             int c;

if (a > b) {

    c = a;

} else if (b % a == 0) {
                                                                      System.out.println(i);
                 c = b;
             → else {
    c = b + (a - (b % a));
                                                                Write the output of each of the following calls.
              return c; 🥎
         mystery(4, 2);
                                                               mystery(5, 0);
         mystery(5, 4);
                                                               mystery(3, 2);
         mystery(5, 13);
         mystery(5, 17);
                                                               mystery(16, 5);
         mystery(4, 8);
                                                               mystery(80, 9);
                                               mystery(1600, 40);
```

or sometimes true / sometimes false. public static int mystery(int x) { 1000 int y = 1; int z = 0; // Point A V while (y <= x) y y. Z++; Point C // Point D // Point E K return z; } Fill in each box of the the table below with ALWAYS, NEVER or SOMETIMES. Sound F/X Point A (choose) Point B \$ \$ \$ (choose) (choose) (choose) Point C (choose) \$ (choose) (choose) \$ Point D \$ (choose) (choose) (choose) Point E \$ (choose) (choose) (choose) Author: Whitaker Brand (on 2010/12/28) Write a method named has Midpoint that accepts three integers as parameters and returns true if one of the integers is the midpoint between the other two integers; that is, if one integer is exactly halfway between them. Your method should return false if no such midpoint relationship exists. The integers could be passed in any order; the midpoint could be the 3rd. ou must check all cases. Calls such as the following should return true: hasMidpoint(4, 6, 8) hasMidpoint(2, 10, 6) hasMidpoint(8, 8, 8) hasMidpoint(25, 10, -5 Calls such as the following should return false: hasMidpoint(3, 1, 3) hasMidpoint(1, 3, 1) hasMidpoint(21, 9, 58) hasMidpoint(2, 8, 16) Type your solution here: 4 5 This is a method problem. Write a Java method as described. Do not write a complete program or class; just the method(s) above. 4 Indent Submit Sound F/X Highlighting

For each of the five points labeled by comments, identify each of the assertions in the table below as either being always true, never true,

$$1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6} + \dots$$
 (also written as $\sum_{i=1}^{\infty} \frac{1}{i}$)

Your method should accept a real number as a parameter representing a limit, and should add and print terms of the sequence until the sum of terms meets or exceeds that limit. For example, if your method is passed 2.0, print terms until the sum of those terms is at >= 2.0. You should round your answer to 3 digits past the decimal point.

The following is the output from the call sequenceSum(2.0);

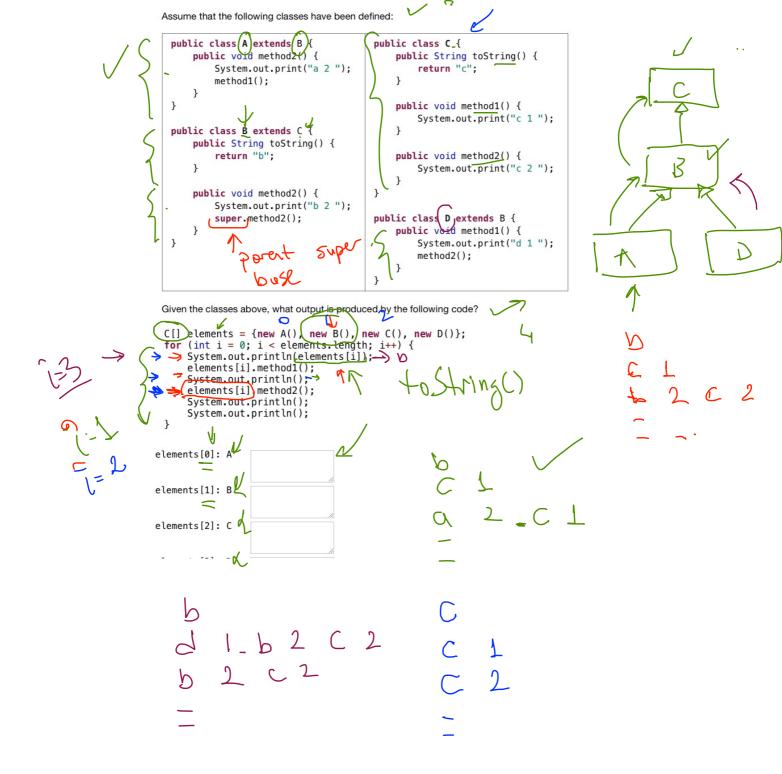
(Despite the fact that the terms keep getting smaller, the sequence can actually produce an arbitrarily large sum if enough terms are added.) If your method is passed a value less than 1.0, no output should be produced. You must match the output format shown exactly; note the spaces and pluses separating neighboring terms. Other sample calls:

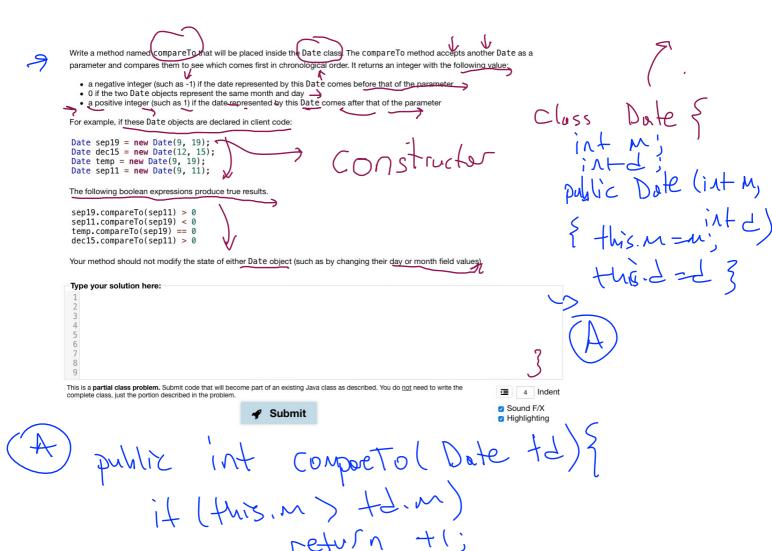
call:	<pre>sequenceSum(0.0); sequenceSum(1.0); sequenceSum(1.5);</pre>
output:	1 = 1.000 $1 + 1/2 = 1.500$
call:	sequenceSum(2.7);
output:	1 + 1/2 + 1/3 + 1/4 + 1/5 + 1/6 + 1/7 + 1/8 = 2.718



4 Indent

This is a method problem. Write a Java method as described. Do not write a complete program or class; just the method(s) above.





Aprif (this, m < +2.m)
return -1; it (this .m = = +2.m) { if (this. & return)
if (this. & return)
if (this. & return) return 0;

Write a method named groceries that accepts as its parameter a Scanner for an input file. The data in the file represents grocery items purchased along with their price and their discount category. Your method should compute and return a real number representing the total cost of the grocery items.

Each item is represented by three tokens starting with the name of the item (a single word) followed by its discount category ("red", "blue" or "none") followed by its full price. The discount category may include capitalization. The different discount options are:

red: 10% off full priceblue: 25% off full price

· none: full price

13 14

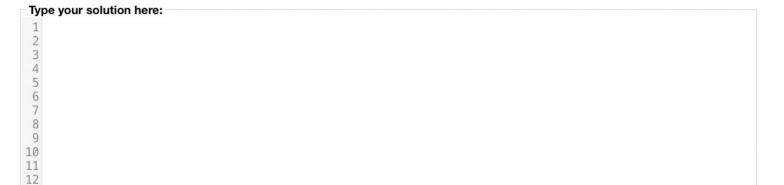
For example, if a Scanner named input refers to an input file containing the following text:

```
avocado RED 1 blueberries none 5 milk blue
2.00 cream red 1.00 cereal None 1.29
```

The call on groceries (input) should return 9.59. The avocado will cost \$0.9 because a discount of 10% off of \$1 is \$0.1. Blueberries cost the full price of \$5. Milk will cost \$1.50 because it receives a discount of 25% off of \$2.00. Cream will cost \$0.9 and cereal will cost the full price of \$1.29. The total is 0.9 + 5 + 1.5 + .9 + 1.29 = 9.59.

Notice that the input may span multiple lines and may have different spacing between tokens. The entire file represents a single grocery bill.

You may assume that the input file exists and has the format described above. The file will always contain at least one grocery item and will always contain a number of tokens that is a multiple of 3. The second token in every triple will always be one of "red", "blue" or "none", case-insensitive.



```
public class Fee extends Fo {
     public void method1() {
         System.out.println("Fee 1");
          super.method3();
      public void method3() {
         System.out.println("Fee 3");
 }
 public class Fie extends Fum {
     public void method1() {
         System.out.println("Fie 1");
      public void method3() {
         System.out.println("Fie 3");
          super.method3();
 }
 public class Fo {
      public void method2() {
         System.out.println("Fo 2");
          method3();
      public void method3() {
          System.out.println("Fo 3");
 }
 public class Fum extends Fo {
     public void method3() \
         System.out.println("Fum 3");
 }
 Suppose the following variables are defined:
\checkmarkFum var1 = new Fie();
 Object var2 = new Fum();
 Fo var3 = hew Fee();
 Object var4 = new fie();
```

Object var5 = new Fo();

Indicate on each line below the output produced by each statement shown. If the statement produces more than one line of output indicate the line breaks with slashes as in a/b/c to indicate three lines of output with a followed by c. If the statement causes an error, write the word error to indicate this.

```
> var1.method2();
   var2.method2();
   var3.method2();
   var4.method2()
   var5.method2();
   var6.method2();
   var1.method3();
   var2.method3();
   var3.method3();
   var4.method3();
   var5.method3();
   var6.method3();
   ((Fee) (var3).method1();
   ((Fee) var4).method1();
   ((Fie) var1).method2();
   ((Fo) var3).method3();
   ((Fie) var6).method2();
   ((Fo) var2).method3();
   ((Fie) var3).method1();
   ((Fo) var5).method2();
```

Fum var6 = new Fum();

Fum var6 = new Fum();