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Date: 12/13/2022

# MPL

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| --- | --- | --- | --- | --- |
|  | Total Questions | Minimum Questions | Answered | Non-answered |
| CH10/11 | 51 | 5 | 5 | 46 |

# Your MPL question selection

## MPL Q1 CH10

Number: 20585

Question: [Suppose](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) a [**reference** variable](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) of [type](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) [Integer](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) called myInt is [already](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) [declared](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?). Create an [**object**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) of [type](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) [Integer](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) with the initial [value](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) of 1 and [**assign**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) it to the [reference variable](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) myInt.

Answer: myInt = new Integer(1);

Why: It was the first problem to do and it was easy

## MPL Q2 CH10

Number: 20604

Question: Write a [**method**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) max that has **two** [string](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) [parameters](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) and returns the [**larger**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) of the two.

Answer: public String max(String x, String y)

{

String max;

if(x.compareTo(y)>0)

{

max=x;

}

else{

max=y;

}

return max;

}

Why: I want to challenge myself and the problem look interesting to do.

## MPL Q3 CH10

Number: 20586

Question: [Suppose](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) a [**reference** variable](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) of [type](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) Long called myLong is [already](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) [declared](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?). Create an [object](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) of [type](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) Long with the initial [value](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) of **two billion** and [**assign**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) it to the [reference variable](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) myLong.

Answer: myLong = new Long(2000000000);

Why: It was a funny problem to solve and it was easy one to do

## MPL Q4 CH11

Number: 20791

Question: [Assume](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) you have a [class](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) **Square**. This [class](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) has an [instance variable](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?), **side** that is protected and of [type](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) [double](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?).  
  
Write the [class](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) definition of a subclass of **Square** called **FancySquare** that has a [method](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) called **getDiagonal**. The **getDiagonal** [method](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) gets no [arguments](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) but returns the [value](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) of **side** multiplied by the square root of two.

Answer: class FancySquare extends Square{

Double getDiagonal(){

Return side\*Math.sqrt(2.0);

Why: It was interesting problem to think about and it made help me learned.

## MPL Q5 CH11

Number: 21122

Question: [Assume](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) the existence of a BankAccount [class](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?).

Define a subclass, SavingsAccount that contains the following:

* a [**double**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) [**instance variable**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?), interestRate
* a [**constructor**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) that accepts a [**parameter**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) of [**type**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) [**double**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) which is used to [**initialize**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?) the [**instance variable**](https://pearson.turingscraft.com/codelab/jsp/core_dhtml.jsp?)

Answer: public class SavingsAccount extends BankAccount{

public

SavingsAccount(double interestRate){

this.interestRate = interestRate;

}

private double interestRate;

}

Why: It was interesting problem to think about and it challenged me to be a better problem solver.