



Final Quiz Exam : Spring 2021 : PMSCS 602 OOP

Quiz Questions

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Which of the following code segment will generate a random number in between 10 and 21 inclusive?

- ☐ random.nextInt(21);
- ☒ (int) (Math.floor(Math.random() * (12)) + 10);
- ☐ random.nextInt(12) + 9;
- ☐ (int) (Math.floor(Math.random() * (11)) + 10);

Clear selection

Correct way of creating an object of a class called Student is

- ☐ ClassName ObjName;
- ☐ ObjName ClassName ;
- ☐ ObjName ClassName = new ClassName();
- ☒ ClassName ObjName = new ClassName();

Clear selection

Which of the following is an abstract data type?

- ☐ string
- ☐ int
- ☐ double
- ☒ class

Clear selection

Which of the following is not a type of assertion?

- ☒ dedicated assertion
- ☐ postcondition assertion
- ☐ control-flow invariant
- ☐ precondition assertion

Clear selection

Which of the following statements is correct?

- ☐ Base class object can refer to objects of Subclass
- ☐ Objects of base class can not be created
- ☐ None of the above
- ☐ Derived class object can refer to objects of Base class

Which of the following is not a valid javadoc tage?

- ☐ @variables
- ☐ @author
- ☐ @serial
- ☐ @params

In Java, arguments are passed to a method by using the _____ scheme.

- ☐ pass-by-value
- ☐ pass-by-name
- ☐ pass-b-argument
- ☐ pass-by-pointer

What is wrong with the following declaration? class Vehicle {abstract public getVIN()...}

- ☐ The Vehicle class must be declared as abstract.
- ☐ The class must be declared as private.
- ☐ The class mst be declared as public.
- ☐ getVIN(); must be declared as private.

Which of the following term is used for a function defined inside a class?

- ☐ Member variable
- ☐ Class function
- ☐ Member function
- ☐ Public function

For Cat and Animal class, correct way of inheritance is:

- ☐ class Cat extends public Animal
- ☐ class Animal : public Cat
- ☐ class Animal extends Cat
- ☐ class Cat extends Animal

Which keyword can prohibit a function to be overridden?

- ☐ static
- ☐ extends
- ☐ public
- ☐ implements

Which of the following regular expressions are invalid?

- ☐ [a|ab]xyz
- ☐ (a-z)*+
- ☐ a-z&&^a*b]
- ☐ abe-14

Which of the following is not a valid type of assertion?

- ☐ control-flow invariant
- ☐ precondition assertion
- ☐ control-flow dependent
- ☐ postcondition assertion

Which of the following will compute the sum: 2 + 4 + ... +500

- ☐ sum = 0; for(int i=1; i<250; i++) sum+=i*2;
- ☐ sum = 0; for(int i=0; i<250; i++) sum+=i*2;
- ☐ sum = 0; for(int i=2; i<=500; i++) sum+=i;
- ☐ sum = 0; for(int i=1; i<=250; i++) sum+=i*2;

Which of the following will execute loop body by 10 times.

- ☐ count = 1; while (count < 10) count++;
- ☐ count = 0; while (count <= 10) count++;
- ☐ count = 1; while (count <= 10) count++;

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