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Given the following declarations in Scala:
class A { def foo(i:Int) = print(i) }
trait B extends A { override def foo(i:Int) = super.foo( i * 2) }
trait C extends A { override def foo(i:Int) = super.foo( i + 1 ) }
trait D extends A { override def foo(i:Int) = super.foo(i * i) }
val x = new A with B with C with D
What is the value printed by the call x.foo(7)?
Câu trả lời: 52
Given the following code in Python:
  class M:
  def foo(self,i):
   print(i * 2)
  class N(M):
  pass
  class Q(N):
  def foo(self,i):
    print(i * i)
What is the printed result of the following code?
x = Q()
N.foo(x,4)
Câu trả lời: 8
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Given the following declarations in a static type checking object-oriented programming language:
class A { def foo() = print("a") }
class B extends A { } // B is a subclass of A
class C extends B { override def foo() = print("c") } // C is a subclass of B
class D extends A { override def foo() = print("d") } // D is a subclass of A
Assume that variable b is declared in type B and is referred to some object, what value can be printed by the call b.foo() in the corresponding object referred by variable b?
Chọn một hoặc nhiều hơn:
☑ a. a (if b is referred to a B object)
□ b. c (if b is referred to a C object}
✓ c. a (if b is referred to an A object)
☐ d. d (if b is referred to a D object)
Given that class A is the super class of class B and the following declarations and initializations in a general static-
type checking object-oriented programming language:
A x = new B(); //a
B y = new A(); //b
Select the correct choice?
Chọn một:
Chọn một:  ○ a. both are correct
a. both are correct
<ul><li>a. both are correct</li><li>b. both are wrong</li></ul>
<ul> <li>a. both are correct</li> <li>b. both are wrong</li> <li>c. Statement //a is wrong but statement //b is correct</li> </ul>

Given the following Scala fragment code,
class SpecialNum(val x:Int)
trait Add extends SpecialNum { def +(other:SpecialNum) = x + other.x }
trait Mul extends SpecialNum { def *(other:SpecialNum) = x * other.x }
val x = new SpecialNum(3) with Add
val y = new SpecialNum(5) with Mul
Fill in the blanks such that expressions $x + y$ and $y * x$ are valid while $y + x$ and $x * y$ are invalid. Make sure that there is only one space in each blank.
Please select the APPROPRIATE static field when defining class CLASS in a school?
Chọn một hoặc nhiều hơn:  □ a. int number; // the number of student in the class  □ b. String name; // the name of the lecture in charge of the class  ☑ c. int maxNo; // the maximum number of students are allowed in a class  ☑ d. int classCount; // the number of classes in the school
Assume class A is declared in package <b>example</b> using Scala. Write the <b>access modifier</b> in the blank such that the corresponding member can be accessed only in package example? Write word <b>empty</b> if you think it does not need
to write anything.
Trả lời: private

## "B, D, C"

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Given the following declarations in Scala:
class A { def foo(i:Int) = print(i) }
trait B extends A { override def foo(i:Int) = super.foo(i+1)}
trait C extends A { override def foo(i:Int) = super.foo( i * 2) }
trait D extends A { override def foo(i:Int) = super.foo(i * i ) }
To make x.foo(10) calculate as (((10 * 2) * (10 * 2)) + 1), please match (1), (2) and (3) in the following declaration?
val x = new A with (1) with (2) with (3)
(2)
      С
                                   $
(1)
      D
                                   $
(3)
      В
                                   $
```

- (2) D
- (1) C
- (3) B