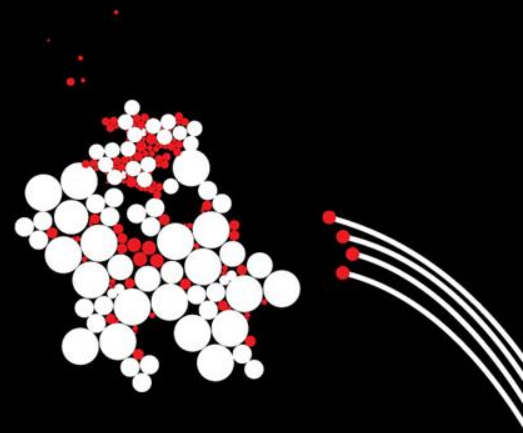


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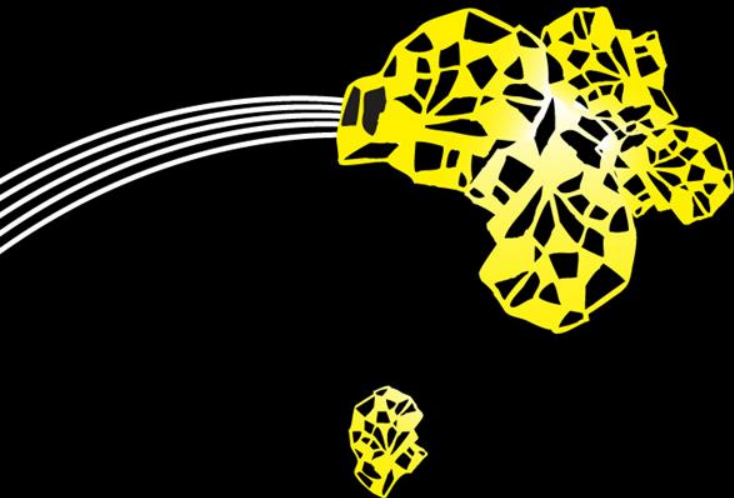


PROGRAMMING

DIAGNOSTIC TEST 2: PUBQUIZ

ANSWERS ROUND 1

07 DECEMBER 2014



ROUND 1, QUESTION 1

Are the following statements true or false:

1. Interfaces can only contain abstract methods
true (except in Java 8, which allows default methods)
2. Abstract classes must contain at least one abstract method
false
3. Abstract classes cannot have constructors
false

ROUND 1, QUESTION 2

Are the following statements true or false:

1. An interface can extend an arbitrary number of other interfaces
true
2. An abstract class can extend an interface
false
3. An abstract class can extend a non-abstract class
true

ROUND 1, QUESTION 3

A is a class and **B** is another class extending **A**.
Both have empty constructors.

Are the following program fragments correct or wrong:

1. **A** varA = **new** B();
correct
2. **B** varB = **new** A();
wrong
3. **B** varB = **new** B(); **A** varA = varB;
correct

ROUND 1, QUESTION 4

`a` and `b` are variables of type `Room[]`

Are the following program fragments correct or wrong:

1. `a = new Room[1]; Room r = a[0];`
correct
2. `b = new Room[a.length+1];`
correct
3. `b = a; a = new Room[0];`
correct

ROUND 1, QUESTION 5

What are the names of islands ①, ② and ③?



- 1. Sumatra
- 2. Borneo || Kalimantan
- 3. Bali

Java

①

②

③