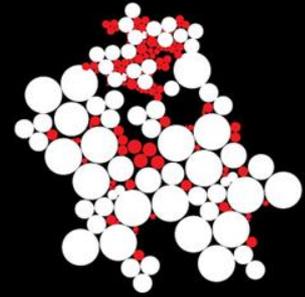


UNIVERSITY OF TWENTE.



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
2. Abstract classes must contain at least one abstract method
3. Abstract classes cannot have constructors

ROUND 1, QUESTION 2

Are the following statements true or false:

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

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

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

ROUND 1, QUESTION 5

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

