

LP24 Object Oriented Programming Final Exam - Spring 2014

Documents, Computer, Calculator unauthorized

1. Theoretical questions (4 pts)

- What means inheritance between two classes? What is multiple inheritance? Is this possible in Java?
- What is the purpose of interfaces? How to write a class which implements an interface in java? How many interfaces a class can implement?
- Which binding is used by default in Java? How it is made when one use static methods?

2. Exercise #1: (4 pts)

Gives the result written by this program on screen . Corrects possible mistakes.

```

class AbstractStatic {
public static void main(String[] args) {
N n1 = new N() ;
N n2 = new N(4) ;
N n2 = new N(3) ;
C c1= new C() ;
n1.m1(2) ;
n2.m1(true) ;

System.out.println(c1.n) ;
System.out.println(n1.n) ;
System.out.println(n1.i) ;
System.out.println(n2.n) ;
System.out.println(n2.i) ;
}
}

abstract class C {
private int n = 0 ;
C() {
n++ ; }

class N extends C{
private int i = 1 ;
private boolean b= true ;

N(int j) {
this.i=i+2 ;
this.n=i+5 ;
}

N(int i) {
this.i=i+3 ;
this.n= i+6 ;
}

N(boolean b) {
this.b= b ;
i++ ;
}

void m1(int j) {
i++ ;
}

void m1(boolean bool) {
if(bool)
{
i++ ;
}
}
}

```

3. Exercise #2 (4 pts):

Writes the following classes:

- Person:
 - Abstract class.
 - Attributes : name, surname : string.

