1. *For the question below, use the following partial class definitions:*

public class A1

{

private int x;

protected int y;

private int z;

...

}

public class A2 extends A1

{

private int r;

protected int s;

...

}

public class A3 extends A2

{

private int q;

private int p;

...

}

1. Which instance data (member variables) are accessible (in other words, you can reference its value) directly in class A2?
2. Which instance data are accessible directly in class A3?
3. Create a bankaccount class derived from Account class. The bankaccount has a balance which has the initial value is 0, and SSN of the account owner needs to be recorded too. Implement constructor properly. Also, override equals to compare two bankaccounts base on name, SSN, and balance.

import java.util.Scanner;

public class Account

{

private String name;

private int accountNumber;

public Account(String name, int accnum)

{

this.name = name;

accountNumber = accnum;

}

Public String returnname()

{return name;}

public boolean equals(Object o)

{

return name.equals(((Account)o).returnname());

}

}