Signature

Name:

**CSE102 Programming Languages II Quiz #9**

1. What is the output of the following program? Explain yourself why.

**public** **static** **void** main(String[] args) **throws** Exception{

ObjectOutputStream os = **new** ObjectOutputStream(**new** FileOutputStream("file.dat"));

os.write(0xFFFFFFFF);

os.close();

ObjectInputStream is = **new** ObjectInputStream(**new** FileInputStream("file.dat"));

System.***out***.println(is.read() + ", " + is.read());

}

1. 255, -1
2. 255, 255
3. 256, 256
4. 0, 0
5. What is the output of the following program?

**public** **static** **void** main(String[] args) **throws** Exception{

ObjectOutputStream os = **new** ObjectOutputStream(**new** FileOutputStream("file.dat"));

os.write(0); os.write(0); os.write(1); os.write(0);

os.close();

ObjectInputStream is = **new** ObjectInputStream(**new** FileInputStream("file.dat"));

System.***out***.println(is.readInt());

}

1. 0010
2. 10
3. 0
4. 256

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**CSE102 Programming Languages II Quiz #9**

1. Write a function which takes a File object which represents a directory and computes the total size of the directory (including all its subdirectories).

(length() and listFiles() methods of a File object will be helpful.)

**static** **long** getSize(File f) {

**if**(!f.isDirectory())

**return** f.length();

**else** {

**long** childrenSum = 0;

**for**(File ch: f.listFiles())

childrenSum += *getSize*(ch);

**return** childrenSum;

}

}

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