

Java - Technical interview questions

This test is meant to be done at home and with a computer.

Unit testing

Write a class that determines the free space on a file system. The class should be unit testable and have idempotent behaviour when run on a build server.

Spring

What does the following XML fragment do.

```
<bean id="myTestBean" class="com.stw.core.person.Person" scope="prototype"
factory-method="createNew" depends-on="dataSource">
    <property name="firstName" value="${first.name}" />
    <property name="phone" ref="phone" />
</bean>
```

Fib

- Write a non recursive function that prints the returns the 10 first numbers of the Fibonacci sequence.
- What is (are) the advantage(s) of using a non-recursive function?

Write 3 thread safe ways of incrementing an integer

StwAndo

Write a program that prints the numbers from 1 to 100. But for multiples of three print "Stw" instead of the number and for the multiples of five print "Ando". For numbers which are multiples of both three and five print "StwAndo".

Algorithm

Given a number between 0 and 999,999, write a method that writes that number in the english language.

For example a call with the number 100282 would return "One hundred thousand, two hundred eighty two".

Java

Suppose you are using a Map. How would you go about detecting the amount of times put() and get() are called on it.

Code Sample

Can you supply a sample of code (or a link towards) which you would consider production ready, elegant and high quality.