Comiru / Poper Corporation Pre-Test

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DATE:

Thank you for applying to Comiru/Poper Co., Ltd.

When considering applicants for engineering positions, we strive to place an emphasis on their true technical skill, which cannot be determined by their educational background or previous work experience alone. That is why we ask that you take this pre-test after confirming the following notices.

- [1] Please answer directly in the body of this file.
- [2] Please avoid using the Internet, literary references, etc. to answer the questions.
- [3] Please do not disclose the content of this test to others.

Q1

Where n is a positive integer, the function f(n) satisfies the following.

$$f(0) = 0$$

$$f(1) = 1$$

$$f(n) = f(n-1) + f(n-2)$$

(1) Please create a program to find f(n). (You can write in any language that you are good at.)

(2) Use the program you created in (1) to find f(9292).

2 lease implei	nent a progra	m that lists t	he nodes o	of a random	binary tree	by nodes	at the same
epth.	. 3				•	-	

Q3

(1) Imagine you are playing a board game. You roll a 6-faced dice and move forward the same number of spaces that you rolled. If the finishing point is "n" spaces away from the starting point, please implement a program that calculates how many possible ways there are to arrive exactly at the finishing point.

(2) If n=610, how many possible ways are there to arrive exactly at the finishing point?

Please tell us about the technologies you frequently use.

Levels of competency	Name of programming Language(Year of experience) Example: Java (3years)
Most Proficient (Please give one answer only)	
Familiar with	
Minimal experience	

Question	Answer
On which platform do you have the most development experience (e.g. iOS apps, Android apps, Linux server, Windows server, etc.)?	
On which platforms are you interested in developing (regardless of experience) (e.g. iOS apps, Android apps, Linux server, Windows server, etc.)?	

Category	Example	Your Experience
Object Containers	EJB, Spring Framework, Guice, Seasar2	
MVC	Spring MVC, Struts 2, Play, Grails	
ORM	MyBatis, Hibernate	
Testing	JUnit, TestNG, Cucumber, Selenium, WebDriver	
IDE/Editor	Eclipse, IntelliJ IDEA, vim, Emacs, Sublime Text, Atom, Visual Studio, Netbeans	
UML/Diagram	Enterprise Architect, Rational XDE, LucidChart	
SCM	CVS, Subversion, Git, Mercurial, Perforce, Visual SourceSafe	
Builds	Ant, Maven, Gradle, Ivy, sbt	

CI/Quality	Jenkins, Bamboo, Sonar, CircleCl	
Java Profilers	Eclipse TPTP, YourKit, JProfiler	
Web Applications Performance Profilers	JMeter, Grinder	
Issue Trackers	JIRA, Redmine, Bugzilla, Trello	
Agile Processes	Scrum, XP, Kanban	
Social Coding Code Review	GitHub, Bitbucket, Stash, Crucible/FishEye	

Q5 Please answer the questions below.

Question	Answer
What specifically do you want to	
achieve at Comiru?	
What kind of Web or smartphone	
applications are you interested in?	
* Please name at least one app that	
you always use, and at least one that	
you have found out about within the	
last year.	
List up to 3 kinds of technology you	
have gotten interested in recently,	
and why you are interested in them.	
1. What is the most technically	1.
difficult or interesting thing you	
have experienced in development	
or programming so far?	
2. Why did you find it difficult /	2.
interesting?	

3. What was your solution, and how did you implement it? (Please answer in as much detail as possible)	3.
Public repository URLs (e.g.: GitHub,	
5	
Bitbucket, etc.)	
Public social accounts (if applicable; e.g.:	
, and obeing accounts (ii approaute, e.g.,	
Twitter, Facebook, etc.)	
Mariela O de elevis el la este en entiel e	
Which 3 technical books or articles	
have made a big impact on you?	
nave made a big impact on you:	

Thank you for your time!