

## Experiment Two

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Participant first, last name: Brad Sokola

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Please direct your browser to [http://www.xemplar.org/search/index\\_adv.jsp](http://www.xemplar.org/search/index_adv.jsp)

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# Task

Create an application that loads and parses HTML documents and creates a DOM tree. The application should traverse the tree, retrieving the values of the HTML attributes and elements en route. In addition, the application should enable users to create and modify HTML documents by changing the DOM tree directly.

## Results

Please specify what keywords you used in your query:

HTML parser DOM tree

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	JTidy	3	HTML & DOM parser
2	DOMUnit	1	unit testing framework
3	INGENIAS Development Kit	1	
4	ItsNot Natural AJAX Java Web Framework	2	Seem to be some small relevant sections

5	OLR	1	
6	iReports Designer for JasperReports	2	
7	JXML Editor	2	
8	Jiven Web HTML Preserve Tech.	4	8
9	Sensor ML Parser and Processing Engine	2	
10	Composer SWT HTML Editor Widget	1	

# Task

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Find an application that uses JavaBeans which uses the bound indexed property to determine property change in this application bean. The application should display some text in its GUI.

## Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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# Task

Implement an application that performs pattern matching operations on a character sequences in the input text files. The application should support iterating through the found sequences that match the pattern. In addition, the application should support replacing every subsequence of the input sequence that matches the pattern with the given replacement string.

## Results

Please specify what keywords you used in your query:

text pattern matcher

~~regex text find and replace~~

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	<del>Advanced File System Editor Tool</del> (AFET)	4	From screenshot on source page it appears to support find/replace functionality across file system
2	<del>Mass Iron File Writer</del>	1	scheduler - unrelated
3	<del>Test</del> <del>Test</del> Tesuji	1	
4	<del>Tree</del> Tree pal	1	

5	Dynamic Aspects	<u>1</u>	AOP . . . . .
6	Mila wet whistler	<u>1</u>	
7	New SQL	<u>1</u>	
8	Netos	<u>1</u>	
9	Xurble	<u>1</u>	
10	nlpFam	<u>1</u>	



# Task

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Implement a library for handling security permissions in a database. The library should support creation of permissions, retrieval and checking permissions by clients, setting system-wide security permissions, retrieval of security permissions with the specified key, adding and removing providers and clients for various permissions.

## Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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# Task

Implement a library similar to a synthesizer that supports generating sounds. These synthesizers should support different transmitters (i.e., sends midi events) and receivers (i.e., receives midi events and interprets them).

## Results

Please specify what keywords you used in your query:

synthesizer transmitter

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3 (mostly relevant), 2 (most irrelevant), 1 (compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Tritonus	2	Midi reading/writing
2	Transmitter Locator	1	unrelated & no files
3	Rasmus DSP	4	MIDI processor w/ various filters & generators including synthesizer
4	Java Sound Resources	3	Lots of MIDI & synthesizer related code

5	DGuitar	<del>1</del> 2	some synthesizer code
6	TuxGuitar	<del>1</del> 2	some synthesizer code
7	MidQuickFix	2	read/edit MIDI, but not much else
8	FreeTTS	2	speech generation
9	Xenodage Player	1	only a player
10	AMICO	1	

# Task

Implement a library for managing concurrent access to hash maps (i.e., the hash maps data structures should be simultaneously accessible by multiple client threads). The concurrent hash table map or table should support regular operations such as clear, contains, put, remove, replace, size, etc.

## Results

Please specify what keywords you used in your query:

Concurrent map

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3 (mostly relevant), 2 (most irrelevant), 1 (compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	RECORDER	2	utilizes the standard java collections
2	Akerblad Sentence Aligner	1	
3	CoDeK: Concurrent Development Framework	3	utilizes java.util.Collections and java.util.concurrent
4	Concurrent Building Block	1	description sounded good but source code was not helpful

5	Gobi	1	unrelated
6	Java Kiss	1	unrelated
7	Yet Another Map Applicati	1	different "Map" - GPS location
8	X: Forge	1	unrelated
9	Hierarchical Map	<u>1</u>	unrelated
10	Query Form Database Tool	1	unrelated

# Task

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Load and execute Java threads from a folder containing classes. Load each class and execute it in its own thread. Keep information about the number of threads and how long to completion. Keep a pool of available threads to accommodate user inputted class names.

## Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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# Task

Java Virtual Machine (JVM) monitoring tool that allows users to view options in the virtual machine and to dynamically change options in the JVM.

## Results

Please specify what keywords you used in your query:

monitar java virtual machine

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	C# Java Virtual Machine	1	looks like a C# JVM implementation
2	Ever Games	1	unrelated - gaming
3	Flash Recruit	1	unrelated job board app
4	JAMon API	2-3	Monitoring tool w/ limited JVM integration

5	JFreeMon	2	simple monitoring app, but not much integration w/ JVM
6	ZPlot	1	unrelated
7	<del>Open</del> <del>Beer</del> Scribe Software	1	unrelated
8	TeaTime Java Virtual Machine	1	nothing of use in source
9	Mips Virtual Machine	1	unrelated MIPS simulator
10	Adaptive Planning Express	1	unrelated excel clone?

# Experiment One

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Participant first, last name:

Brad Sokola

Block: **Green**

Please direct your browser to <http://sourceforge.net/>

Login name: xemplar

Password: exemplar2009

In the end of this experiment, please write your comments below this line



# Task

Create an application for sharing, viewing, and exploring large data sets that are encoded using MIME. The data sets may represent blogs or genome sequences. The data can be stored using key value pairs. The application should support retrieving data items by mapping keys to values.

## Results

Please specify what keywords you used in your query:

MIME viewer

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3 (mostly relevant), 2 (most irrelevant), 1 (completely irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Mime Type Detection Utility	3	Contains utilities for determining MIME type and contains standard java.io and java.net
2	Mime-Dir and VCard Java Api	1	seems very specific to VCard processing
3	Java Mime Magic Library	2	Contains a TextFileDetector class that may be reusable
4	Humboldt WMS Viewer	1	

5	jdfile Java lib to detect file mimetype	2	seems to contain MIME related parsing logic
6	Option Font Viewer	1	unrelated
7	Regular Expressions web replicator	1	web crawler
8	MIME4J	3	seems to contain a variety of MIME parsing, encoding utilities.
9	Pooka	1	Mainly an email client with limited MIME support
10	JWebMail Java Webmail	1	webmail client

# Task

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Implement a library to support an affine transformation between vector spaces (i.e., affine vector spaces) using linear transformations (rotation, scaling or shear) and translations (shift).

## Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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# Task

Develop a universal sound and voice system that allows users to talk, record audio, and play MIDI records. Users should be able to open source connections with each other and communicate. A GUI should enable users to save conversations and replay sounds.

## Results

Please specify what keywords you used in your query:

audio chat system

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	DLearn	1	Downloadable content did not contain usable code
2	Ice System	1	seems to be text only
3	red s chat	1	Video chat, not sure if it supports audio
4	Java Meehy	1	No code/files

5	Studio 3	1	No code/files
6	The Harmony of the World	1	no idea what this actually does
7	Fubbie	1	doesn't seem usable appears to be only a <del>set</del> mockup of intended application
8	ArColne	1	No code/files
9	Meeting Point	1	Looks to be only flash & php can't locate relevant code snippets
10	Rendezvous	2	More or less a video meeting app, but source looks like it has potential for re-use

# Task

Implement a library for representing and manipulating with BigDecimal numbers. A BigDecimal consists of an arbitrary precision integer unscaled value and a 32-bit integer scale. If zero or positive, the scale is the number of digits to the right of the decimal point. If negative, the unscaled value of the number is multiplied by ten to the power of the negation of the scale. The value of the number represented by the BigDecimal is therefore  $(\text{unscaledValue} \times 10^{-\text{scale}})$ .

## Results

Please specify what keywords you used in your query:

BigDecimal manipulation

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	BigNumbers	3	Provides interpretation & calculation using BigDecimal
2	jExigo Java Fixed Decimal Arithmetic	1	looks to just be a different implementation of BigDecimal
3	Big Calculator	4	Provides a variety of functions including ArcTan, Natural Log, etc. as well as expression interpretation
4	picture- makeup	1	unrelated - image manipulation

5	Jericho HTML Parser	<u>1</u>	
6	Berkeley DB Manipulation Tool	<u>1</u>	
7	TextFile Manipulation Tool	<u>1</u>	
8	Save My Files Util	<u>1</u>	
9	image Order	<u>1</u>	
10	Marvin Image Processing Frame	<u>1</u>	

# Task





Create an application for creating, opening, and manipulating \*.zip files. The application should support opening \*.zip files for reading, deleting after opening as well as adding new entries into existing \*.zip files.

## Results

Please specify what keywords you used in your query:

zip file manipulation

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	File Piper	1	No source code available & nothing else to download
2	Zip Code Finder	1	
3	JArchive	2	Archive manipulation tool for eclipse
4	Eclipse Zip Editor	2	Looks like mostly what we want, but is specific to eclipse platform.

5	ZipME	  1	Appears to be just a different implementation of the standard zip libraries for mobile applications
6	Snazzy Backup	 4	appears to be almost exactly what we want. has simple GUI and utilizes <del>standard</del> java.util.zip
7	Packlet installer tool	<u>1</u>	
8	Java Open Package System	<u>1</u>	
9	AT4J	 2	libraries seem working with zip files, but no front end component
10	File Finder	<u>1</u>	

# Task

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Create a framework that provides transactional support for CORBA-based applications. The framework should handle security and authentication, resource pooling, and database connectivity.

## Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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