IDE Review

- BlueJ
- . NetBeans
- . Eclipse

Namespace, Package, Classpath

- . baseDir/x
- . baseDir/x/y
- baseDir/x/y/z
- If class X is defined as below, which directory should it be in?
- . X.java
- package x.y.z;
- public class X {}

Java Archive

- eXtract
 - jar xf archivename
 - jar xf var-packer-assign.jar
 - Produces the following directory structure
 - ./VarPacker
 - ./VarPacker/Lists

Java Archive

- Create
 - jar cf new-archive-file path-to-archive
 - For the following structure:
 - ./VarPacker
 - ./VarPacker/Lists
 - jar cf var-packer-assign.jar ./VarPacker *txt
- Table of contents
 - jar tf archivename

Importing Files

• BlueJ

- extract jar in new directory, say, Import
- import from this new Import directory
- automatically reads in all java files
- NetBeans
 - extract jar in new directory, say, Import
 - create project from existing sources
 - nb does not copy these files

Importing Files

- . Eclipse
 - Create new project
 - Import files directly from Jar archive

Exporting Files

- BlueJ
 - Create jar
 - Make sure to select sources
- NetBeans
 - change project properties to remove exclude for
 *java in Properties->Build-> Creating Jar
 - creates jar in dist subdir of project
 - Create the jar manually from src subdir of project directory

Exporting Files

- Eclipse
 - Export as Jar
 - Select the files you want to write out

Running Tests

- download junit.jar
- . export to a jar (compiled classes)
- run tests on command line

```
java
-classpath junit.jar:var-packer-assign.jar:
var-packer-test.jar
```

VarPackerTest.AllTests

Running Tests

- BlueJ
 - Tools->Preferences->Libraries->add junit.jar
 - run main of AllTests class
- NetBeans
 - Import sources
 - Run Junit tests by right clicking on source file and run file, choose RunOther->Test
- Eclipse
 - Import jar
 - Run as junit

Running Tests

. If only test classes are provided

– Run from command line