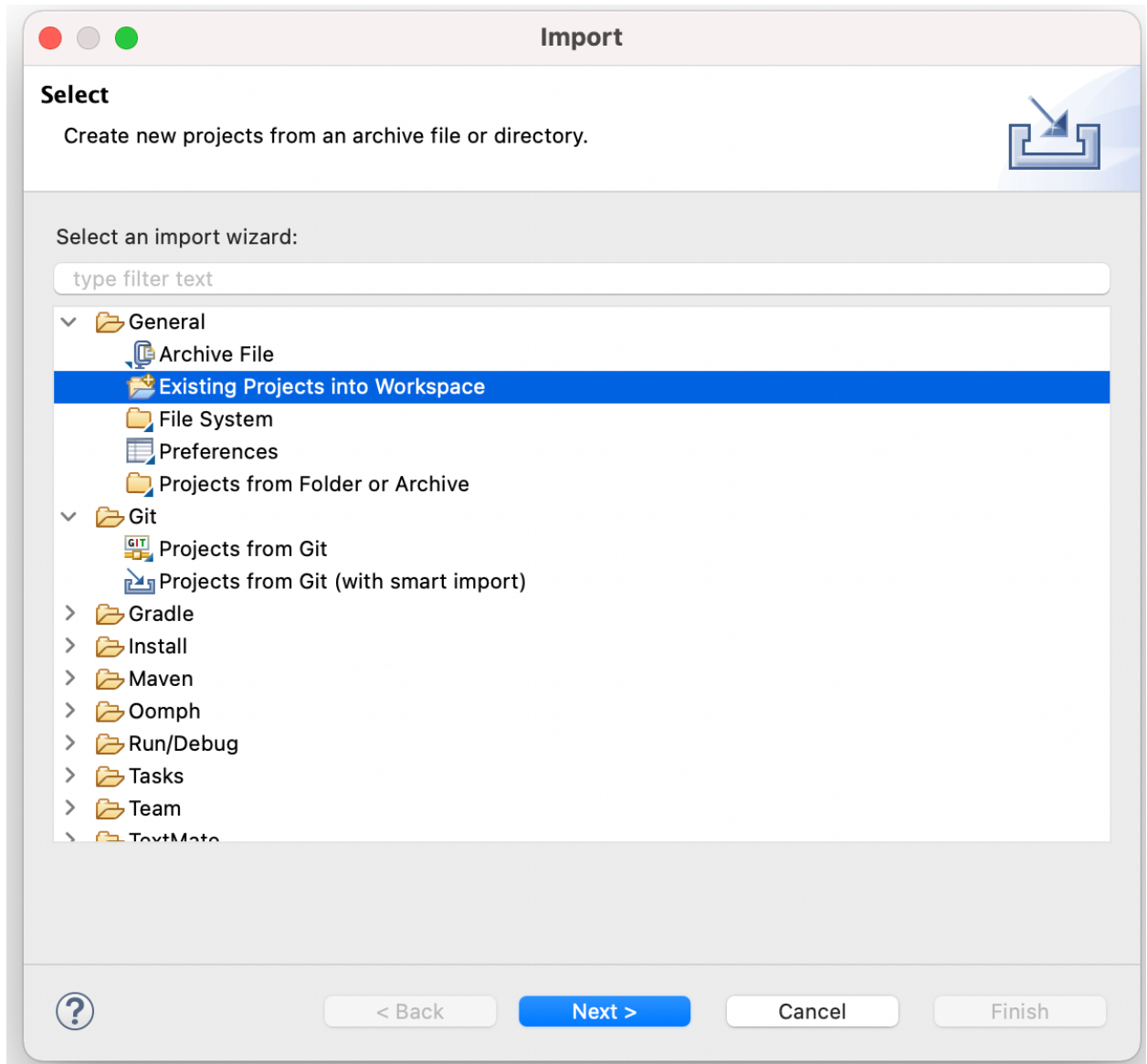# Drill0: Java + Eclipse
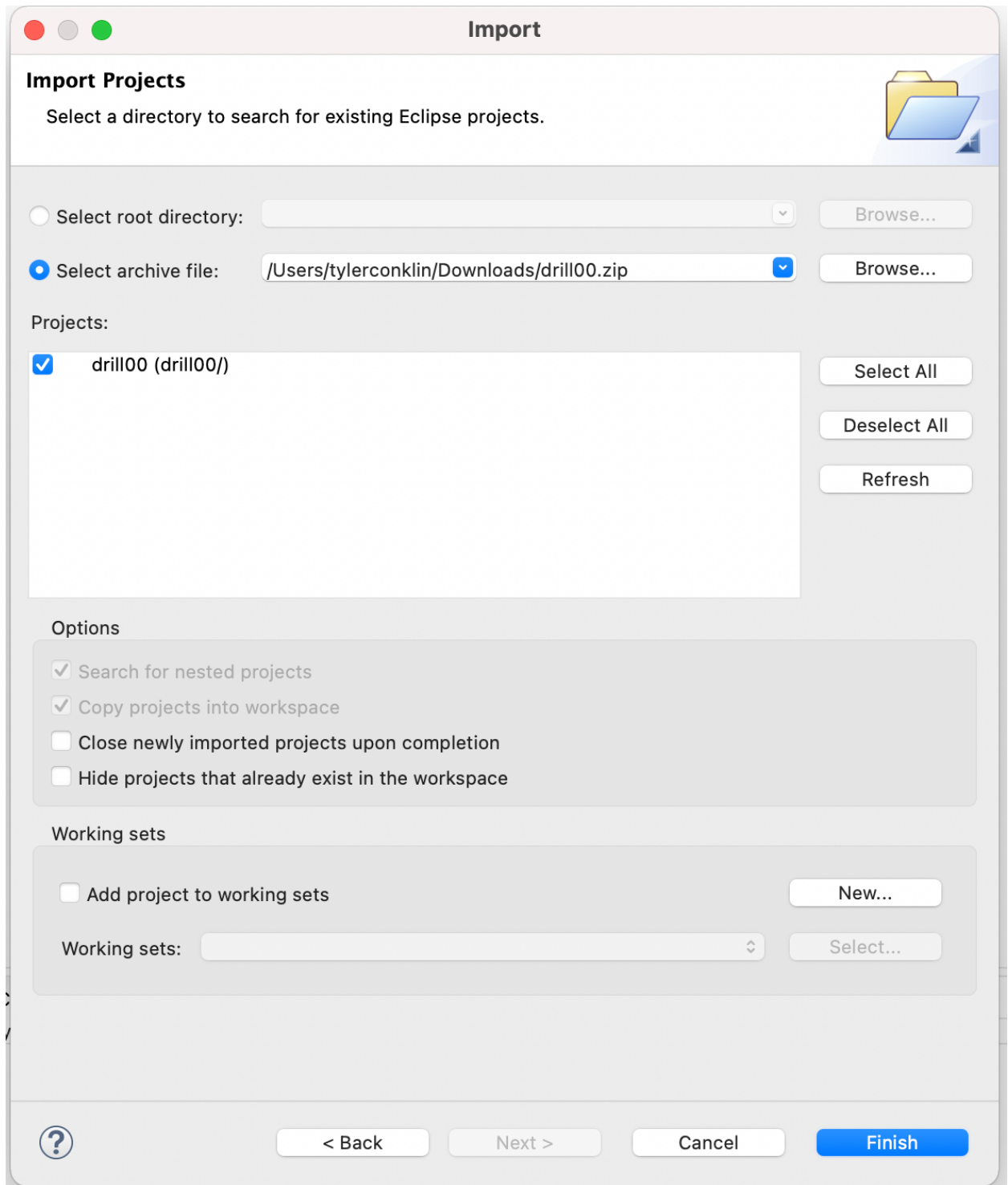## Due: Wednesday, January 19th, 2022, by 11:30pm

Please follow the instructions in the following order to get things set up for the projects. If you already have the software (with the correct version) you can skip to the next step.

Hopefully you can navigate the installation with just these instructions, but if you have trouble installing either Java or Eclipse you have two ways to get help: 1) The TAs will run a few installation help sessions. Go to one of those! 2) We have posted instructions which go into more step-by-step detail on Piazza under Resources -> General Resources. Keep in mind that these instructions are from a year ago so some of the screenshots might look a tiny bit different but the steps are basically the same.

1. Install JDK 17 - (*Really any version at or above Java 8 should be fine.*) The following instructions are for Windows and Mac, Linux users should probably use their distro's package manager to install (but the link has .rpm and .deb)

   1.1 https://www.oracle.com/java/technologies/downloads/ and pick the installer for your OS

2. Install Eclipse IDE (The latest version is 2021-12 but recent older versions should be fine as well)

   2.1 Go to the Eclipse downloads page

   2.2 It should have a download button that picks the right version for your system

   2.3 Install and run

3. Get the project from Piazza into Eclipse.

   3.1 Go to Piazza -> Resources. Under Homework you will find drill00.zip. Download this zip folder.

   3.2 Switch back to Eclipse, and then go to `File > Import`

   3.3 Under 'General', choose 'Existing Projects Into Workspace' as shown below.

3.4 Next, choose 'Select archive file.' We chose archive file because it is still a .zip file. If we had already unzipped the folder, then we would have selected 'Select root directory.' This is shown below too.

3.5 Click 'Finish'. The project should now show up in Eclipse.

4. Editing .java files

4.1. In the Project Explorer tab, expand the `src` folder until you see Drill00.java. Double click it to open.

4.2. Edit the file as per the comments and save when you are done. Make sure to test that the program compiles and runs. Further instructions to run the drill are included in the README file with the project AND in the actual source file Drill00.java in case you had trouble finding the README ☺

5. Submit to Gradescope. Be careful when dragging the files into Gradescope. Notice that when you installed Eclipse, you chose a workspace for Eclipse. For me that exists in a directory that looks like this: /Users/tylerconklin/eclipse-workspace.

Whenever you import a project into Eclipse, the code that you edit lives in this folder. In this example I might have two copies of Drill00.java. One would be in my downloads folder from when I downloaded it from Piazza but the copy I edited in Eclipse would actually live in my eclipse-workspace.