Tips of Eclipse

TA: Jimin Hsieh

Agenda

- Text file encoding
- Change Background Color
- Line Number
- Refactor
- Debugging

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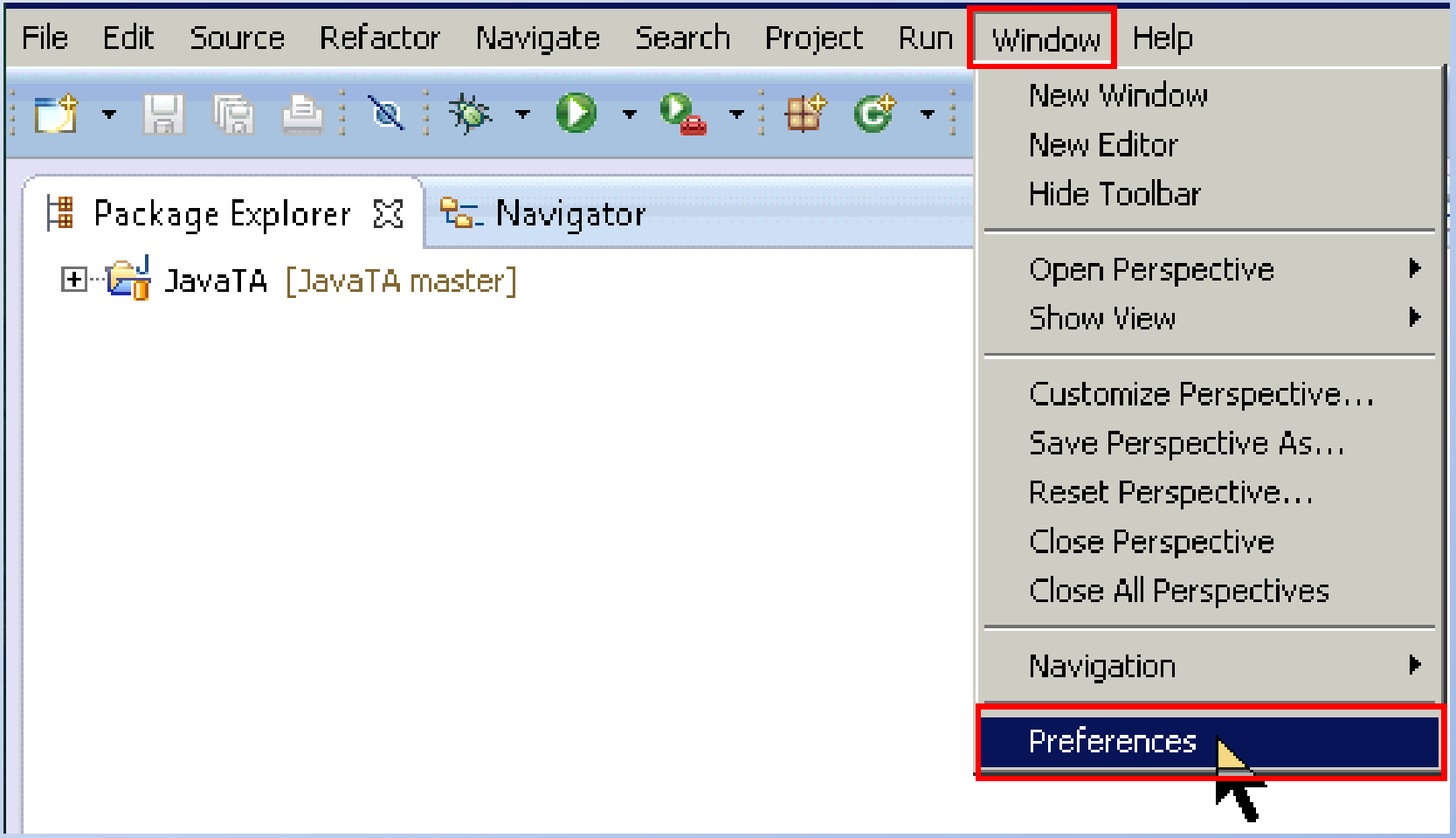
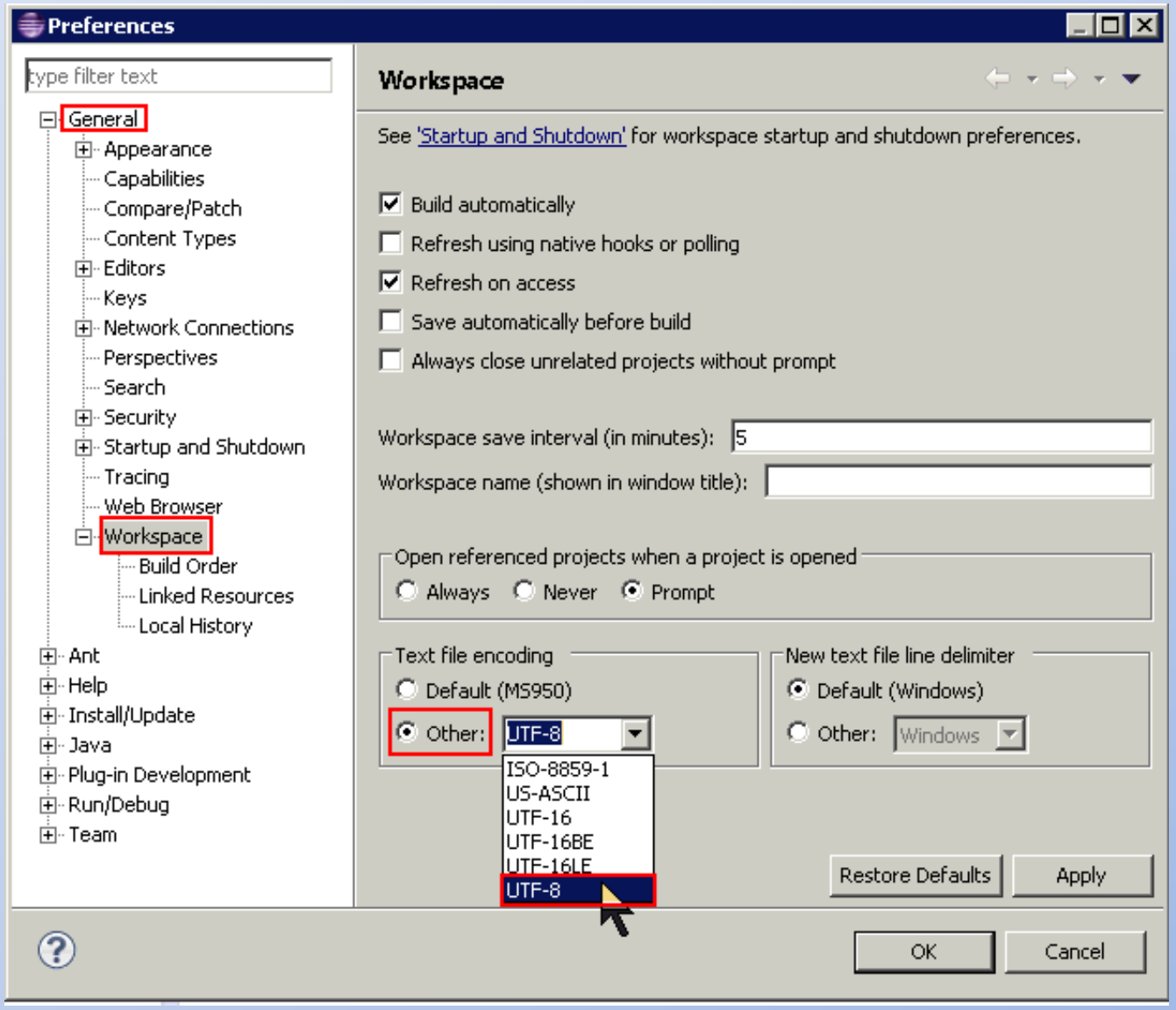
Text file encoding



Text file encoding



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Change Background Color

Before

```
import java.util.Iterator;

public class Dequeue<Item> implements Iterable<Item> {
    private int N;
    private Node first;
    private Node end;

    // circular linked list class
    private class Node {
        private Item item;
        private Node next;
        private Node previous;
    }
    public Dequeue() {
        // construct an empty deque
        first = null;
        N = 0;
        assert check();
    }

    public boolean isEmpty() {
        // is the deque empty?
        return size() == 0;
    }
```

After

```
public class Dequeue<Item> implements Iterable<Item> {
    private int N;
    private Node first;
    private Node end;

    // circular linked list class
    private class Node {
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    }

    public boolean isEmpty() {
        // is the deque empty?
        return size() == 0;
    }
```
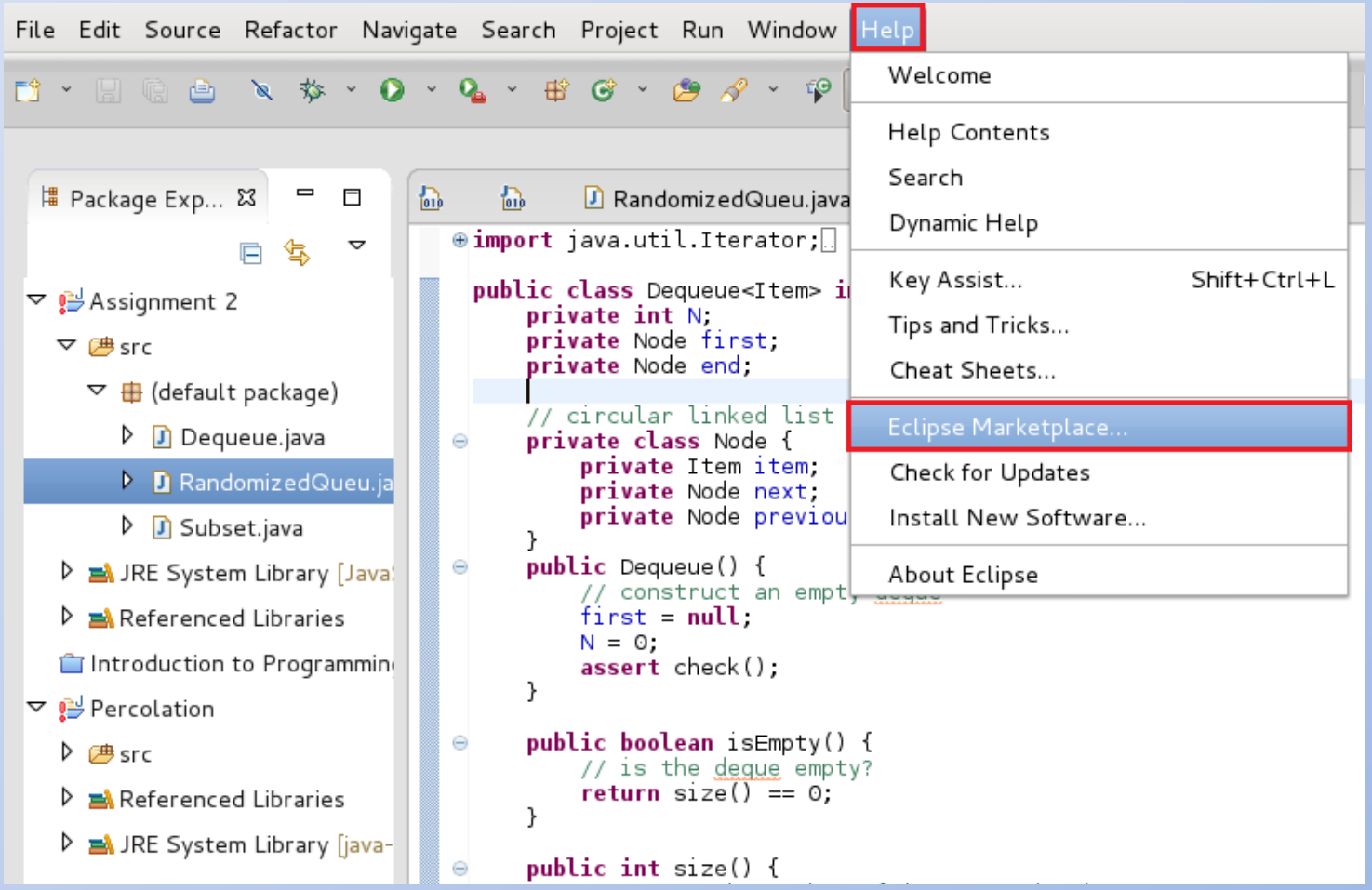
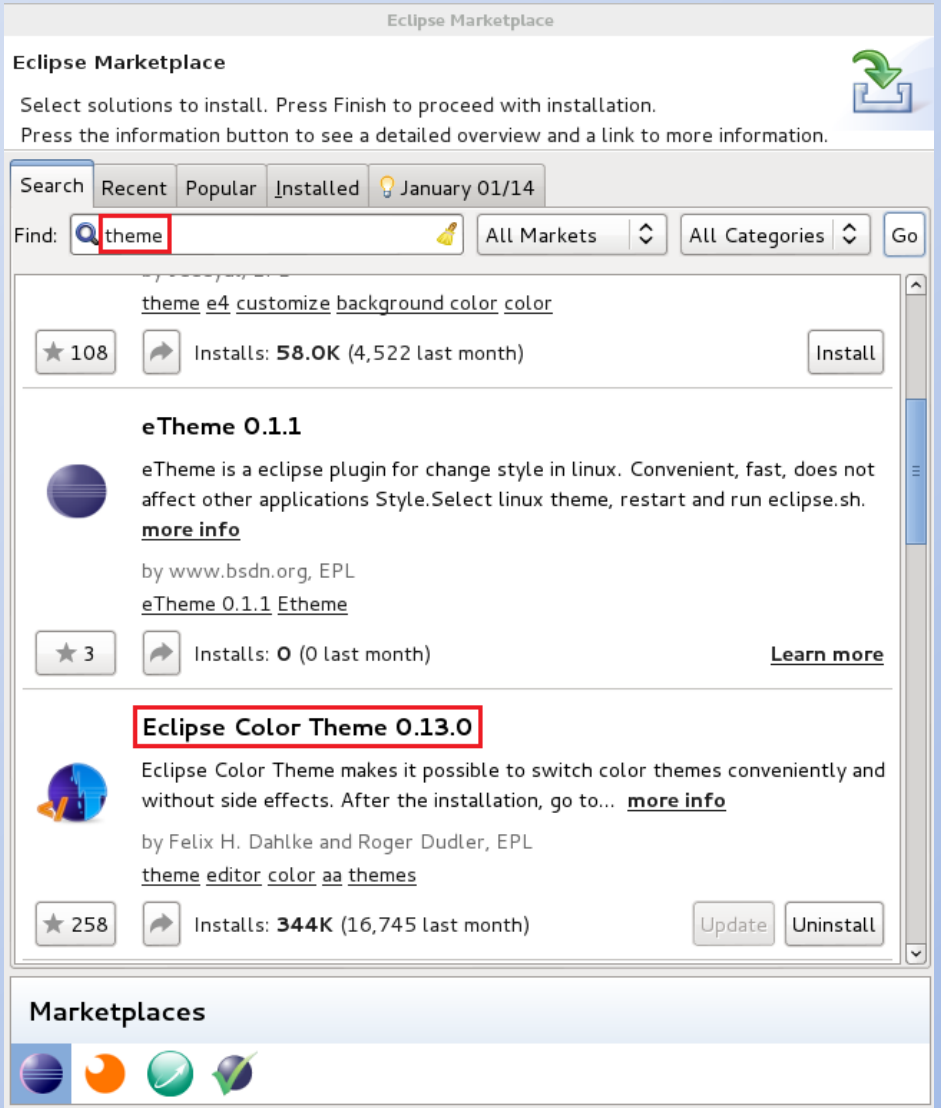
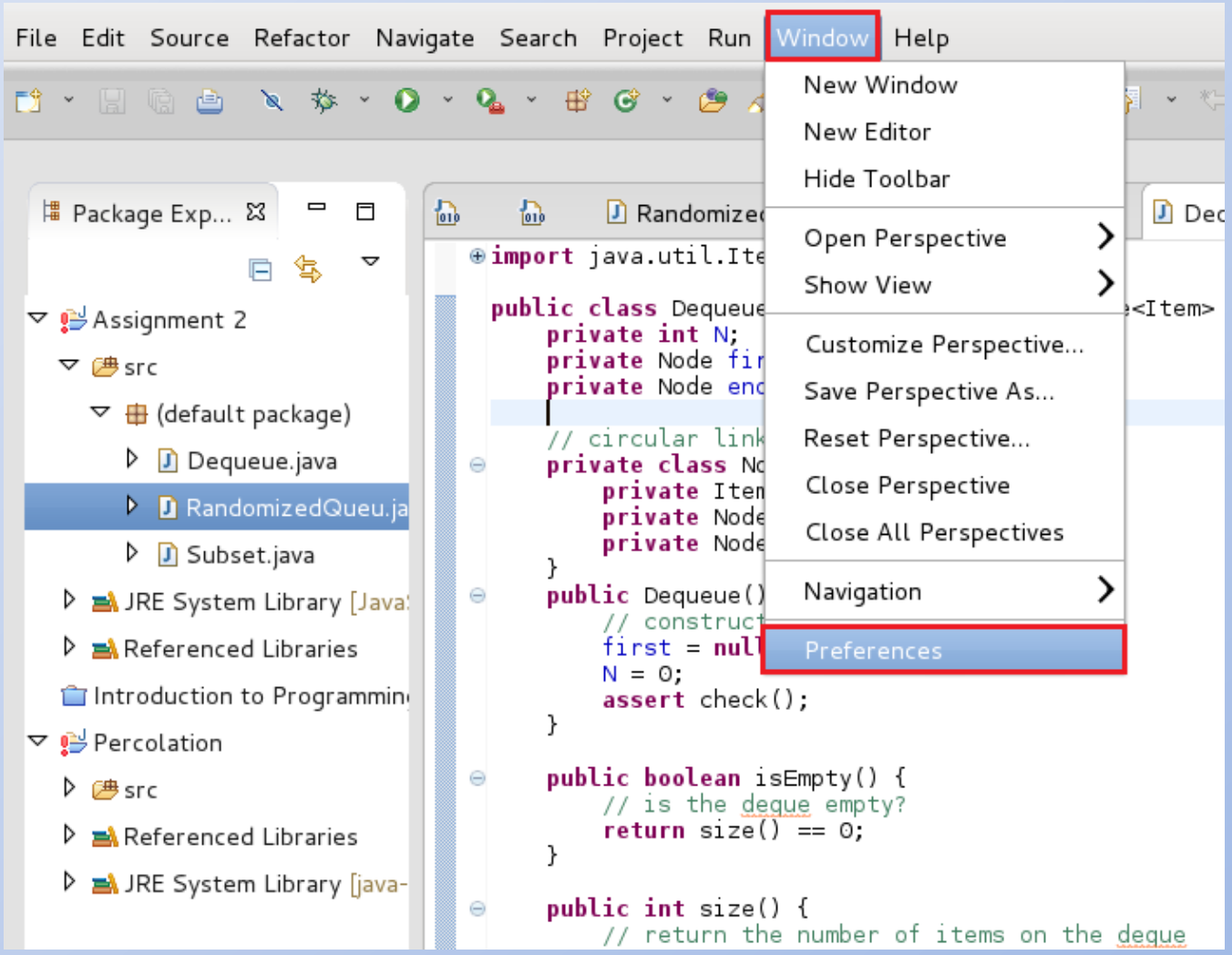
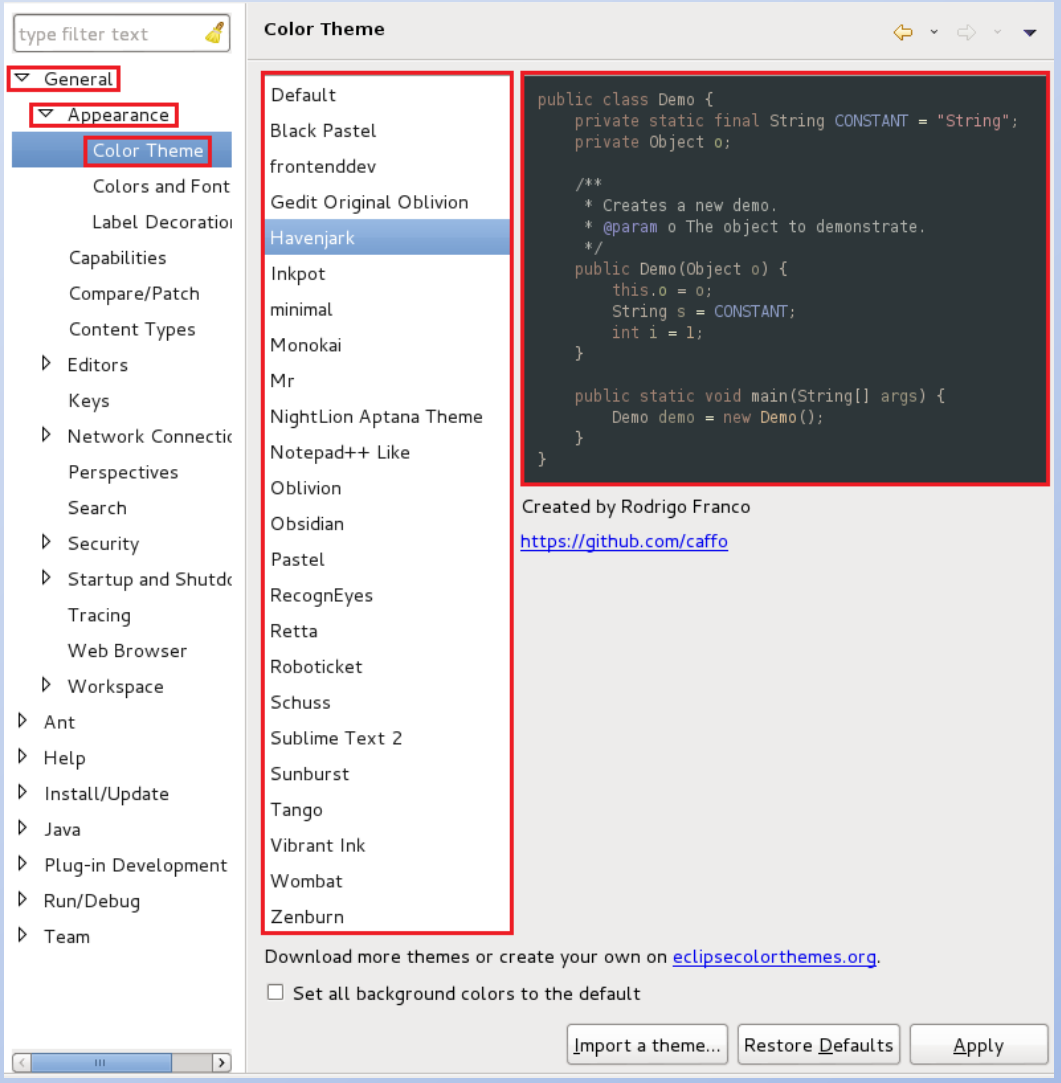

- For Newest Eclipse (4.3)



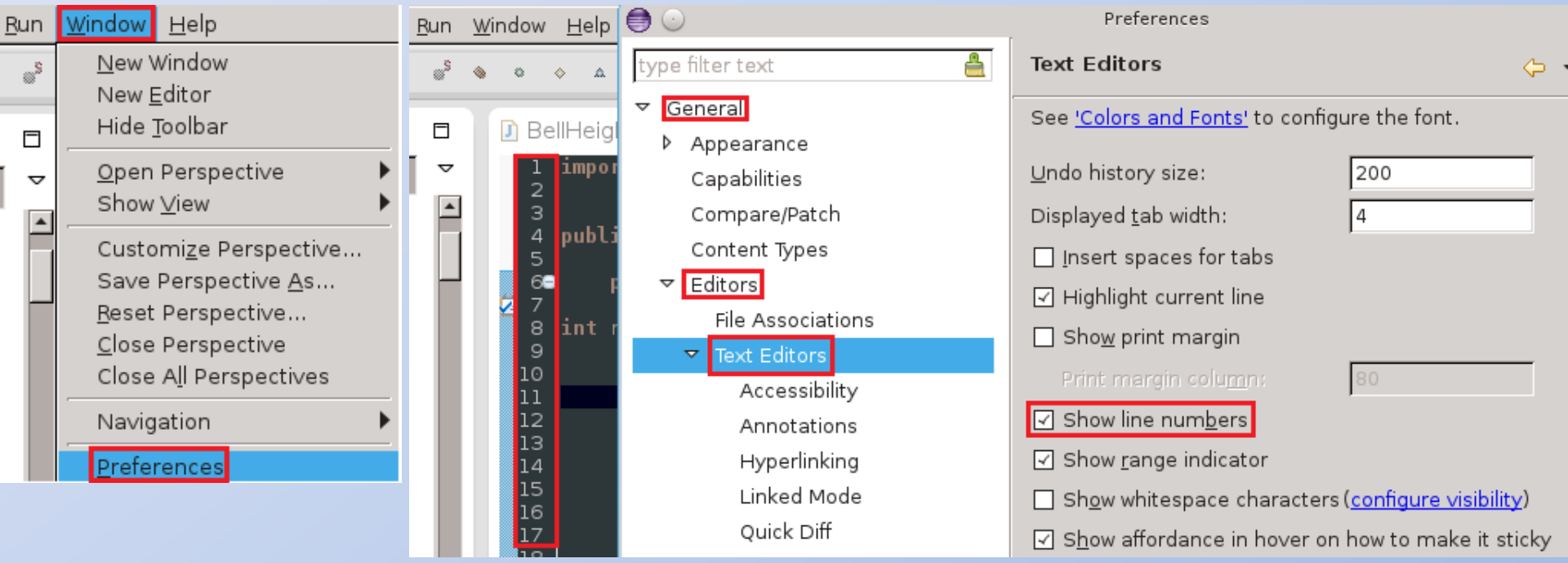

Eclipse Marketplace
Eclipse Marketplace
Select solutions to install. Press Finish to proceed with installation.
Press the information button to see a detailed overview and a link to more information.
Search
Recent
Popular
Installed
January 01/14
Find:
theme
All Markets
All Categories
Go
theme e4 customize background color color
108
Installs: 58.0K (4,522 last month)
Install
eTheme 0.1.1
eTheme is a eclipse plugin for change style in linux. Convenient, fast, does not affect other applications Style.Select linux theme, restart and run eclipse.sh.
more info
by www.bsdn.org, EPL
eTheme 0.1.1 Etheme
3
Installs: 0 (0 last month)
Learn more
Eclipse Color Theme 0.13.0
Eclipse Color Theme makes it possible to switch color themes conveniently and without side effects. After the installation, go to... more info
by Felix H. Dahlke and Roger Dudler, EPL
theme editor color aa themes
258
Installs: 344K (16,745 last month)
Update
Uninstall
Marketplaces


File Edit Source Refactor Navigate Search Project Run Window Help
New Window
New Editor
Hide Toolbar
Open Perspective
Show View
Customize Perspective...
Save Perspective As...
Reset Perspective...
Close Perspective
Close All Perspectives
Navigation
Preferences
Package Exp...
Assignment 2
src
(default package)
Dequeue.java
RandomizedQueu.ja
Subset.java
JRE System Library [Java
Referenced Libraries
Introduction to Programmin
Percolation
src
Referenced Libraries
JRE System Library [java-
import java.util.Ite
public class Dequeue
private int N;
private Node fir
private Node enc
// circular link
private class No
private Item
private Node
private Node
public Dequeue()
// construct
first = null
N = 0;
assert check();
public boolean isEmpty() {
// is the deque empty?
return size() == 0;
public int size() {
// return the number of items on the deque


type filter text
General
Appearance
Color Theme
Colors and Font
Label Decoratio
Capabilities
Compare/Patch
Content Types
Editors
Keys
Network Connectic
Perspectives
Search
Security
Startup and Shutdc
Tracing
Web Browser
Workspace
Ant
Help
Install/Update
Java
Plug-in Development
Run/Debug
Team
Color Theme
Default
Black Pastel
frontenddev
Gedit Original Oblivion
Havenjark
Inkpot
minimal
Monokai
Mr
NightLion Aptana Theme
Notepad++ Like
Oblivion
Obsidian
Pastel
RecognEyes
Retta
Roboticket
Schuss
Sublime Text 2
Sunburst
Tango
Vibrant Ink
Wombat
Zenburn
public class Demo {
private static final String CONSTANT = "String";
private Object o;
/**
* Creates a new demo.
* @param o The object to demonstrate.
*/
public Demo(Object o) {
this.o = o;
String s = CONSTANT;
int i = 1;
}
public static void main(String[] args) {
Demo demo = new Demo();
}
}
Created by Rodrigo Franco
https://github.com/caffo
Download more themes or create your own on eclipsecolorthemes.org.
Set all background colors to the default
Import a theme...
Restore Defaults
Apply

- Text file encoding
- Change Background Color
- Line Number
- Refactor
- Debugging

Line Number



Run
Window
Help
New Window
New Editor
Hide Toolbar
Open Perspective
Show View
Customize Perspective...
Save Perspective As...
Reset Perspective...
Close Perspective
Close All Perspectives
Navigation
Preferences
Run
Window
Help
BellHeig
Preferences
type filter text
General
Appearance
Capabilities
Compare/Patch
Content Types
Editors
File Associations
Text Editors
Accessibility
Annotations
Hyperlinking
Linked Mode
Quick Diff
Text Editors
See 'Colors and Fonts' to configure the font.
Undo history size:
200
Displayed tab width:
4
Insert spaces for tabs
Highlight current line
Show print margin
Print margin column:
80
Show line numbers
Show range indicator
Show whitespace characters (configure visibility)
Show affordance in hover on how to make it sticky

- Text file encoding
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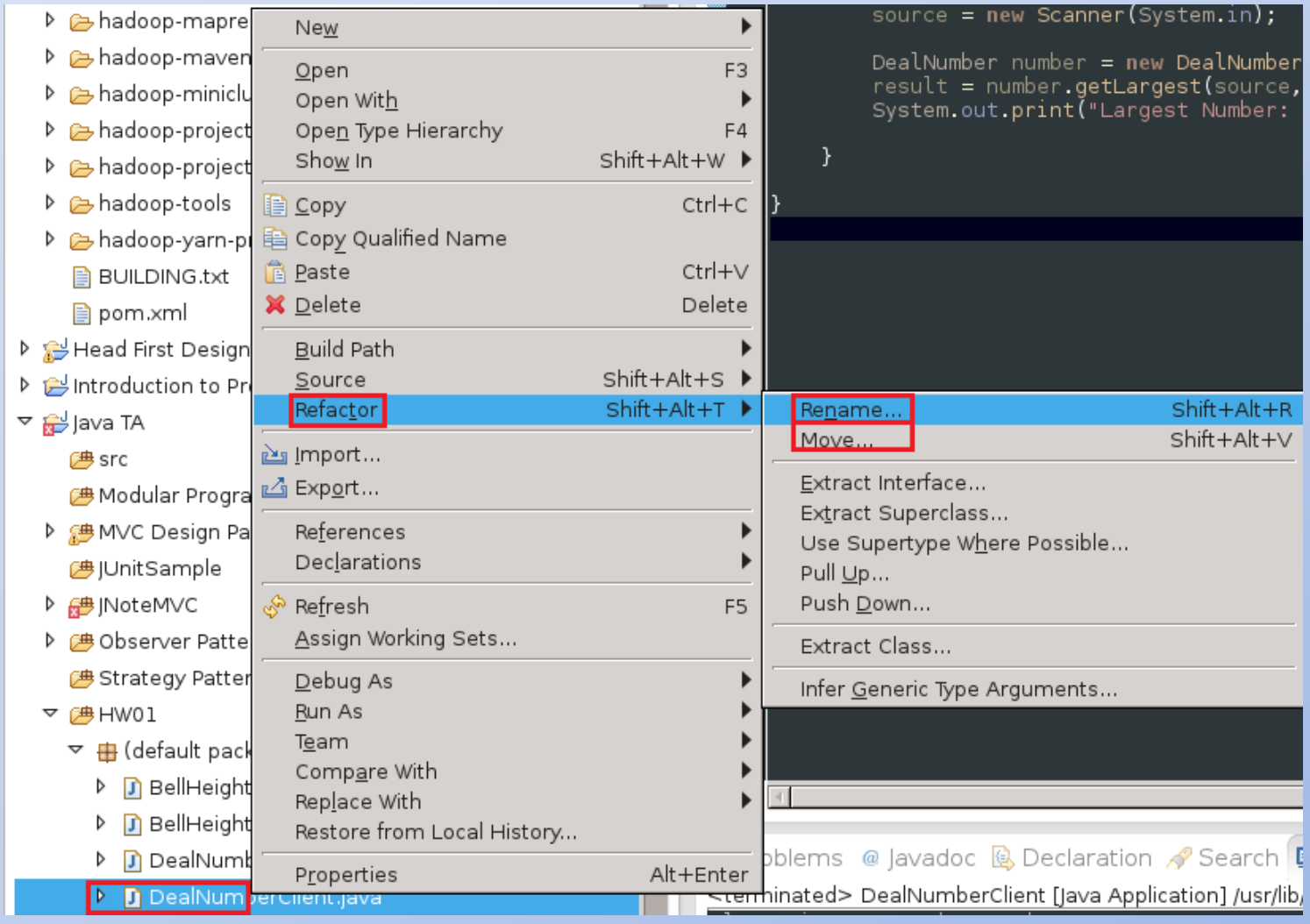
Refactor


hadoop-mapre
hadoop-maven
hadoop-miniclu
hadoop-project
hadoop-project
hadoop-tools
hadoop-yarn-pi
BUILDING.txt
pom.xml
Head First Design
Introduction to Pr
Java TA
src
Modular Progra
MVC Design Pa
JUnitSample
JNoteMVC
Observer Patte
Strategy Patter
HW01
(default pack
BellHeight
BellHeight
DealNumb
DealNumberClient.java
New
Open F3
Open With
Open Type Hierarchy F4
Show In Shift+Alt+W
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete Delete
Build Path
Source Shift+Alt+S
Refactor Shift+Alt+T
Import...
Export...
References
Declarations
Refresh F5
Assign Working Sets...
Debug As
Run As
Team
Compare With
Replace With
Restore from Local History...
Properties Alt+Enter
source = new Scanner(System.in);
DealNumber number = new DealNumber
result = number.getLargest(source,
System.out.print("Largest Number:
}
}
Rename... Shift+Alt+R
Move... Shift+Alt+V
Extract Interface...
Extract Superclass...
Use Supertype Where Possible...
Pull Up...
Push Down...
Extract Class...
Infer Generic Type Arguments...
oblems @ Javadoc Declaration Search
<terminated> DealNumberClient [Java Application] /usr/lib/

Refactor

- What is refactor?
- You can't find this word in any dictionary!
- It's a verb.
- Definition: Refactoring is the process of changing a software system in such a way that it does not alter the external behavior of the code yet improves its internal structure.

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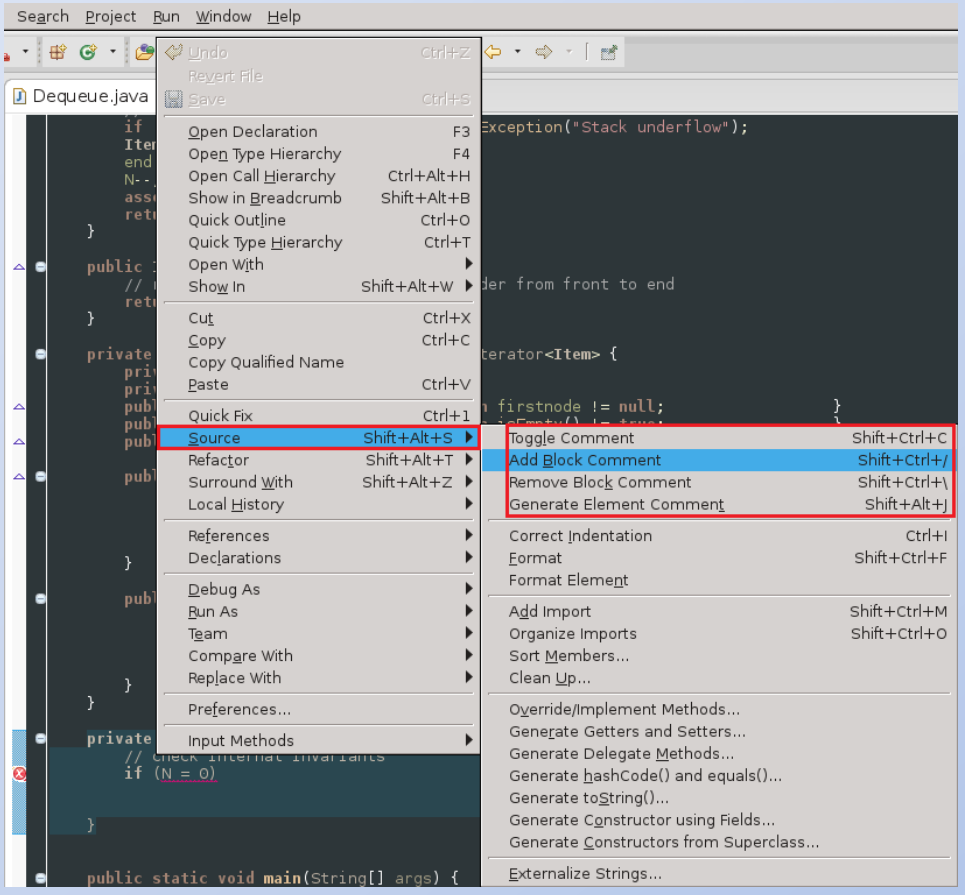
Comment

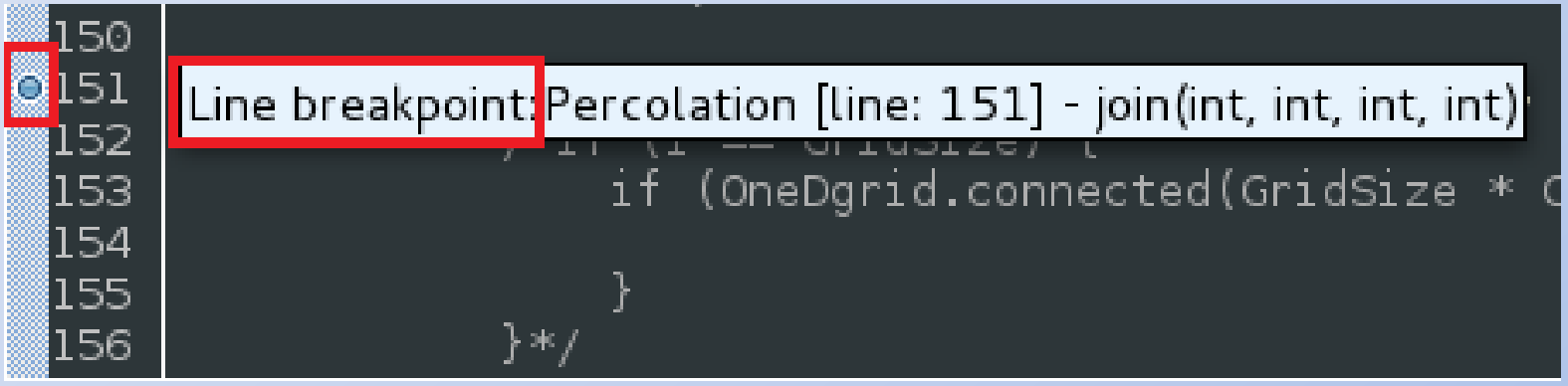


1. Select which part of code you want to Comment
2. Right-Click
3. Source -> (Toggle/Add Block/Remove/Generate Element) Comment

Enable Debugging Feature

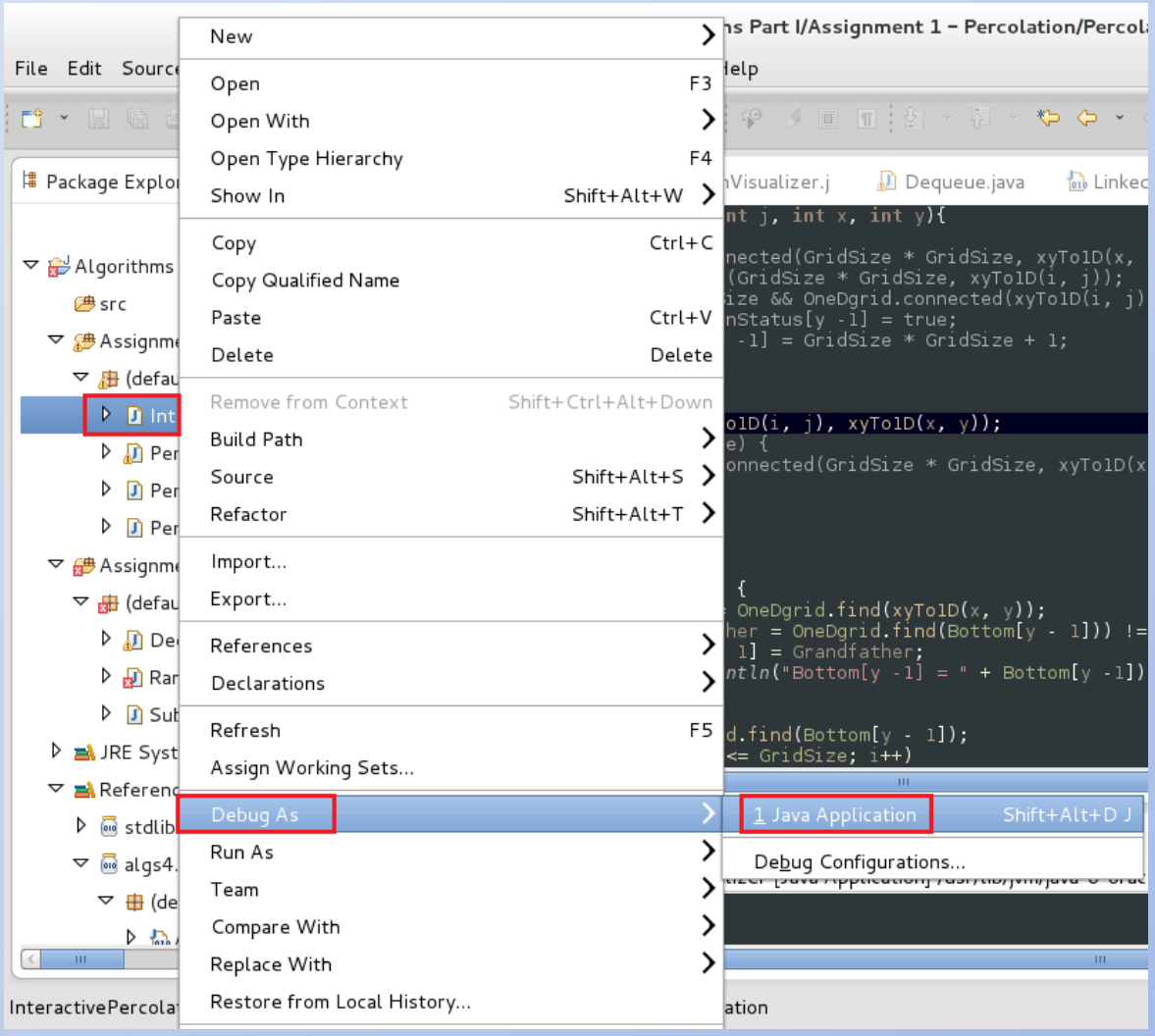
- 1. Set breakpoint
- 2. Enable debug

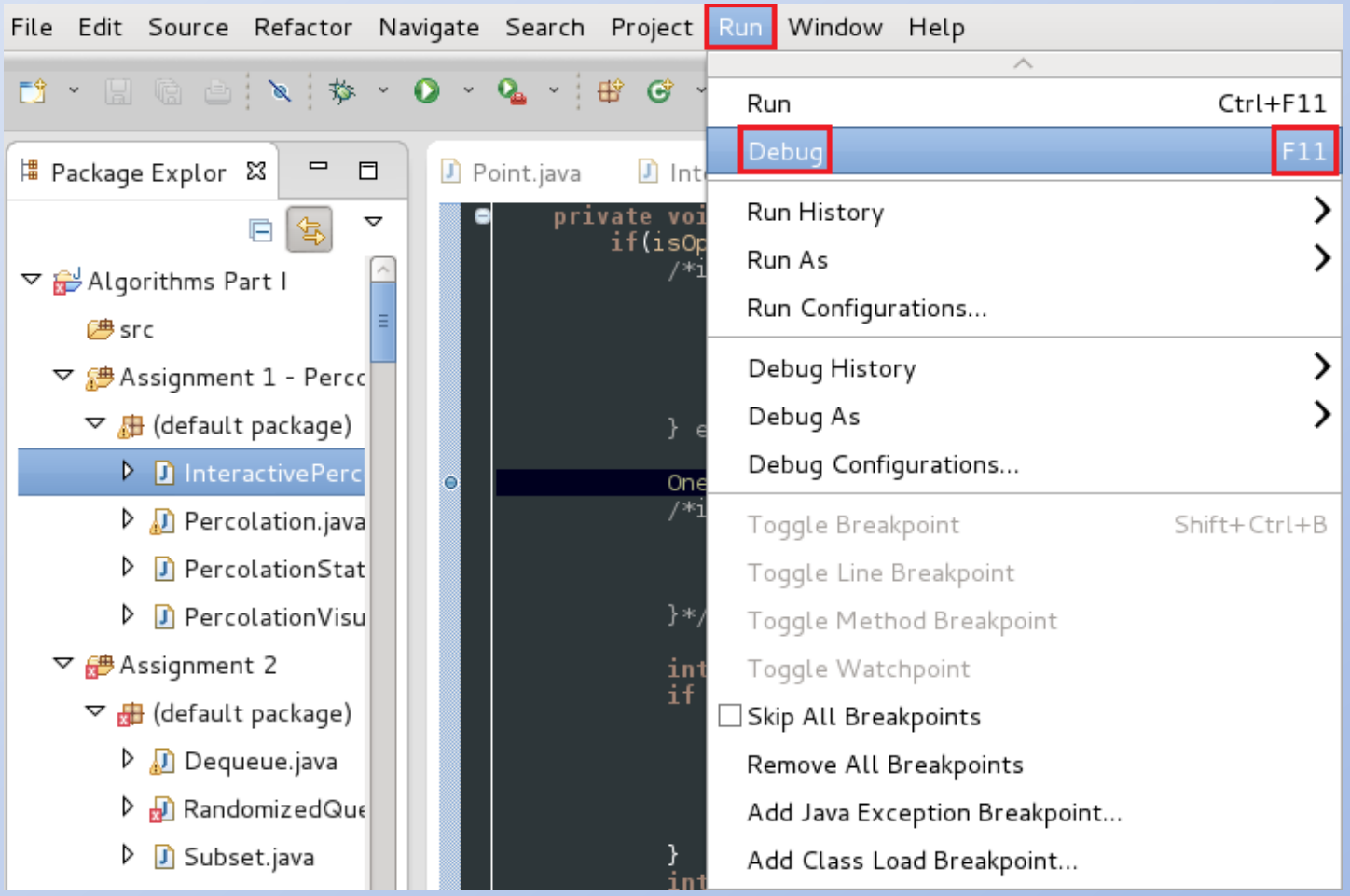
Set Breakpoint



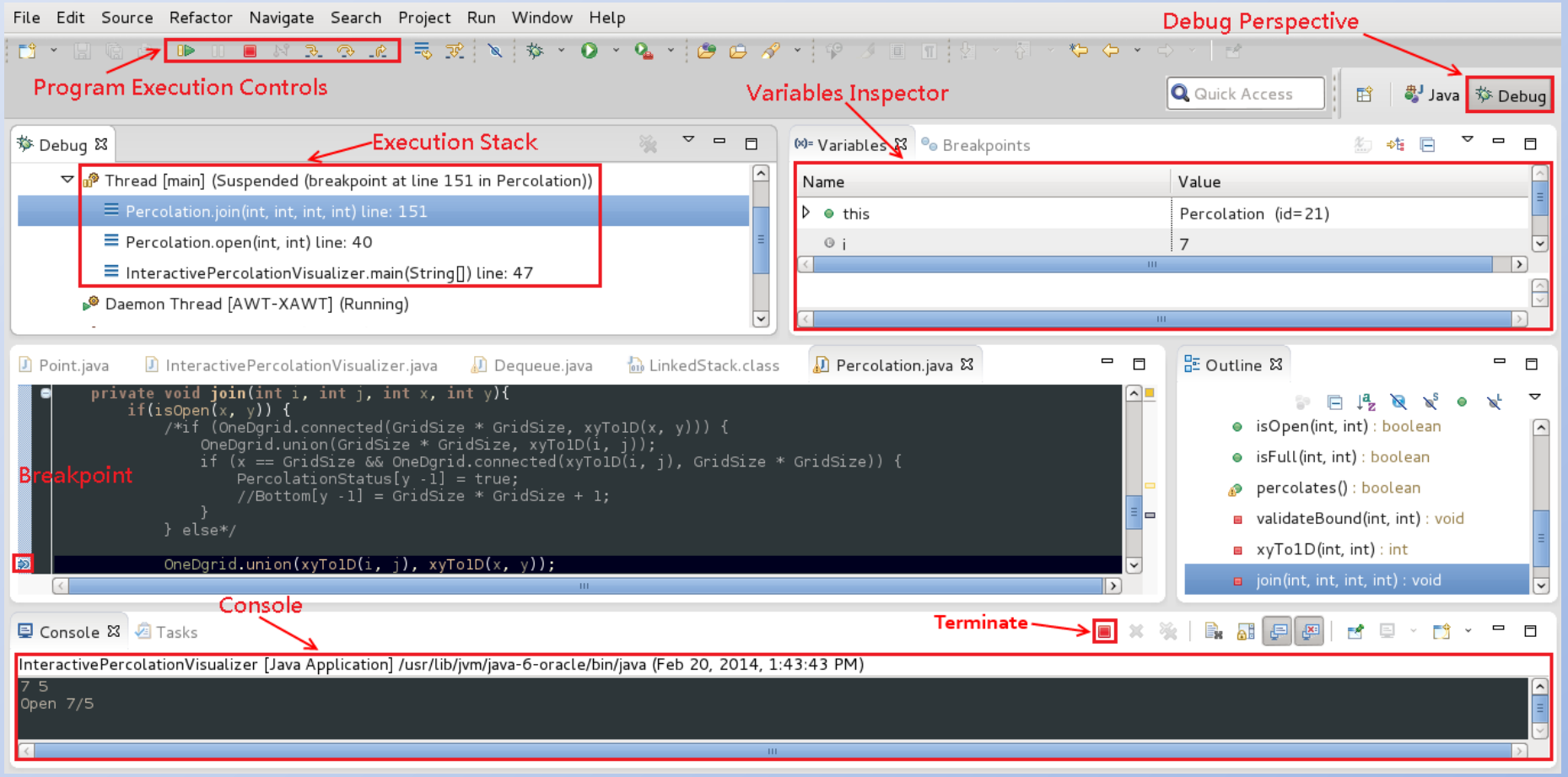
- Double Click
- Indicate which line you want to set, then send "Ctrl+Shift+B"

Enable Debug




File Edit Source Refactor Navigate Search Project Run Window Help
Package Explor
Algorithms Part I
src
Assignment 1 - Percc
(default package)
InteractivePerc
Percolation.java
PercolationStat
PercolationVisu
Assignment 2
(default package)
Dequeue.java
RandomizedQue
Subset.java
Point.java
Run Ctrl+F11
Debug F11
Run History
Run As
Run Configurations...
Debug History
Debug As
Debug Configurations...
Toggle Breakpoint Shift+Ctrl+B
Toggle Line Breakpoint
Toggle Method Breakpoint
Toggle Watchpoint
Skip All Breakpoints
Remove All Breakpoints
Add Java Exception Breakpoint...
Add Class Load Breakpoint...

Debug Perspective



Program Execution Controls

- Step into: jump into method/function
- Step over: pass through method/function
- Step return: when you are into a method, then pass through the reminder of code

Debugging - Exercise

- Please download source code from ftp server
  - File Name: DebugError.java
- Try to use the skill I teach to find the bug

Q&A

Thanks for you attentions!