



Result of IPRO Deliverables

Project Plan	Grade: 14/14
Midterm Report	Grade: 16/16
Code of Ethics	Grade: 16/16

Work Results

Book Results

Revised Chapters	7
Completely New Chapters	4
Total Chapters	11

Book Changes

Insertions	497
Deletions	518
Total Changes	1015

Lecture Slide Results

Chapters w/ Slides	5
Chapters w/o Slides	5
Total Slides	152

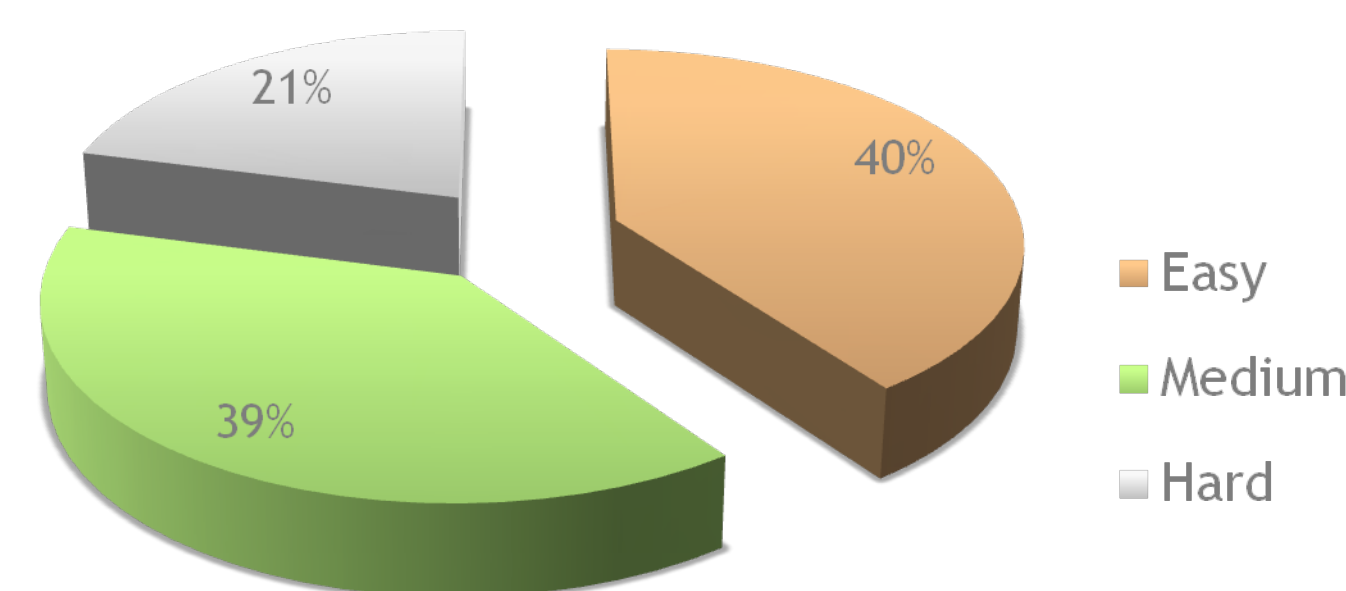
Exercise Results

total time spent (min)	5285
average time spent (min / prob)	18
average grade (out of 5)	4.15

Exercise Changes

Changed	23
Added	35
Deleted	14

Exercise Difficulty



Chapter Comments Score Board

Team Member	Major	Chapters	Average/Chapter
Allen, David	Non-CS	10	12.2
Bathum, Nicholas	CS	8	4.8
Jeong, Seon	Non-CS	10	7.9
Johnson, Leland	CS	10	4.3
Kwak, Noh Hyup	Non-CS	10	8.5
Patel, Vivek	Non-CS	10	6.8
Schmitz, Peter	CS	8	4.1
Tilatti, Michael	Non-CS	10	11.0
Hammes, Katherine	Non-CS	2	5.0
Kofman, Roman	CS	2	5.0
Tran, Harry	Non-CS	2	6.5
Rymek, Phil	CS	2	5.5

Code of Ethics

Overarching Standard

All book-contributors will:

- Fulfill all requirements set forth by the client
- Submit only original work
- Never lose sight of the best interest of the consumers
- Never act unfairly toward fellow members

Paradigm of Code of Ethics

- The book uses multicultural examples and exercises such as driving or making sandwiches.
- All of our content is original and created with our audience in mind.

Meeting Structure

1. Two consecutive class hour meeting
2. Thursday IRC online chat
3. Wednesday Editing Subteam meeting

Project Plan

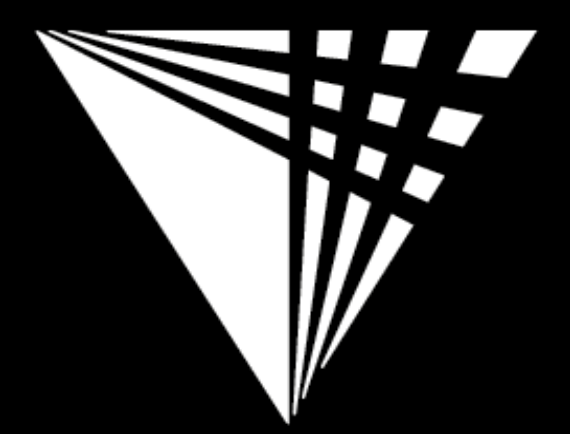
IPRO Deliverable	Start	Finish
Project Plan	1/25/2008	2/22/2008
Midterm Report	3/3/2008	3/14/2008
Midterm Presentation	3/3/2008	3/14/2008
Final Report	4/21/2008	5/2/2008
IPRO Day Presentation	4/20/2008	5/25/2008
IPRO Day Poster	4/21/2008	4/25/2008
Code of Ethics	2/15/2008	3/7/2008
Website	4/18/2008	4/25/2008
Abstract	4/21/2008	4/25/2008
Meeting Minutes	1/25/2008	4/18/2008
CD-ROM	4/25/2008	5/2/2008
Team Debriefing	5/5/2008	5/26/2008

Milestones	Start	Finish
Chapters 1 - 4 and Midterm report	2/4/2008	3/16/2008
Chapters 5 - 9	3/14/2008	4/28/2008
Final Report and Deliverables	3/14/2008	5/2/2008

Time Spent

Name/Week	1/28-2/3	2/4-2/10	2/11-2/17	2/18-2/24	2/25-3/2	3/3-3/9	3/10-3/16	3/17-3/23	3/24-3/30	3/31-4/6	4/7-4/13	4/14-4/20	total
David Allen	7.0	6.0	6.8	9.6	13.5	12.3	3.0	5.5	6.0	7.5	9.0	7.0	93.2
Nicholas Bathum	7.3	3.5	7.0	11.5	10.0	10.0	7.0	1.0	6.0	3.0	8.0	6.0	80.3
Katherine Hammes	3.5	12.0	9.0	11.0	10.0	10.0	5.0	10.0	12.0	9.5	11.0	9.0	112.0
Seon Jeong	2.5	10.5	9.0	9.0	10.0	10.0	9.0	2.0	11.0	6.0	7.0	10.0	96.0
Leland Johnson	5.0	8.5	8.3	10.0	10.0	6.0	6.5	6.5	6.0	6.5	7.0	4.0	84.3
Roman Kofman	7.1	6.0	3.0	6.0	8.5	12.0	7.0	0.0	8.0	8.0	8.5	7.8	81.9
Noh Hyup Kwak	3.5	7.5	8.5	11.0	8.5	12.0	7.0	3.5	6.5	10.0	9.0	9.0	96.0
Vivek Patel	3.5	9.8	9.5	6.5	10.0	10.0	7.5	0.0	6.5	6.0	9.0	11.5	89.8
Phillip Rymek	5.0	10.0	10.0	10.0	8.0	9.0	8.0	0.0	9.0	8.5	9.0	10.0	96.5
Peter Schmitz	5.9	6.3	4.0	4.8	8.0	8.8	5.0	3.0	4.0	3.5	5.0	14.0	72.3
Michael Tilatti	5.0	10.0	6.5	6.0	10.0	10.5	6.0	0.0	9.0	6.0	9.0	8.0	86.0
Harry Tran	2.6	10.0	8.0	10.0	10.0	10.0	10.0	10.0	10.0	11.0	11.0	10.0	112.6
week total	57.9	100.1	89.6	105.4	116.5	120.6	81.0	41.5	94.0	85.5	102.5	106.3	1100.9
week average	4.8	8.3	7.5	8.8	9.7	10.1	6.8	3.5	7.8	7.1	8.5	8.9	91.7

Testing and Improving a New Text for Teaching Computer Science



Editing Team 1: Katherine Hammes, Roman Kofman, Phillip Rymek, Harry Tran

- Created new chapters 1 through 8
- Re-edited chapters 1 through 8 based upon others' comments
- Commented on chapters 9 and 10

Editing Team 2: Nicholas Bathum, Peter Schmitz

- Created new chapters 9 and 10
- Edited chapters 9 and 10 based upon others' comments
- Commented on chapters 1 through 8
- Initially helped the exercise team

IPRO 328 Members

David Charles Allen, Nicholas Bathum, Katherine Hammes, Seon Jeong, Leland Johnson, Roman Kofman, Noh Hyup Kwak, Vivek Patel, Phillip Rymek, Peter Schmitz, Michael Tilatti, Harry Tran, Yacin Nadji (Student Advisor), David Grossman (Advisor)

Grading Team: Leland Johnson, Phillip Rymek

- Created lecture slides
- Taught the book in a lecture format
- Graded all the homeworks
- Commented on every chapter

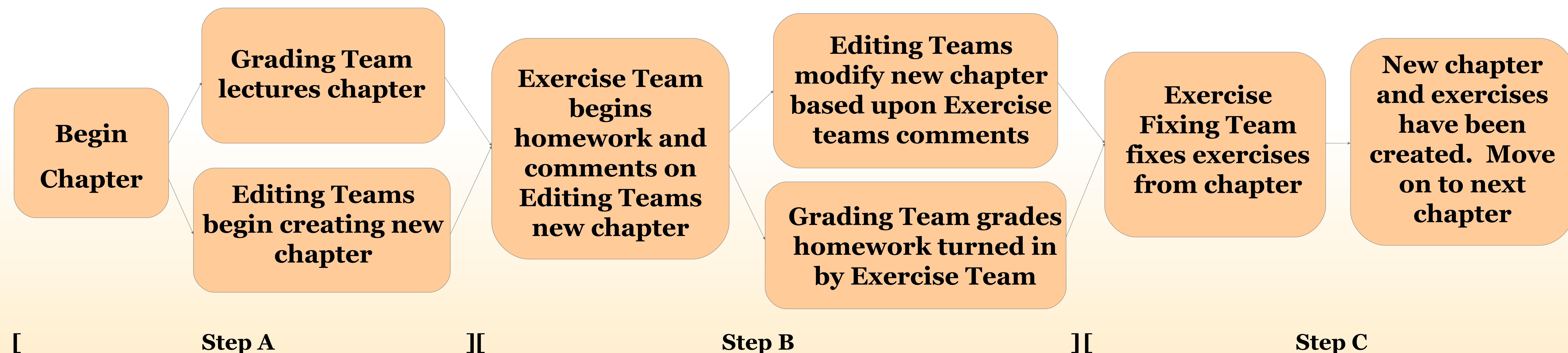
Exercise Team: David Allen, Nicholas Bathum, Seon Jeong, Noh Kwak, Vivek Patel, Peter Schmitz, Michael Tilatti

- Responsible for learning Ruby and all concepts presented in the book.
- Completed all homeworks to test proficiency of the book.
- Commented on every chapter of the new book.

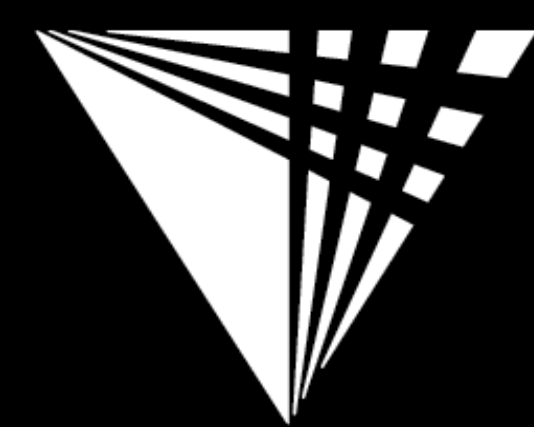
Exercise Fixing Team: David Allen, Seon Jeong, Noh Kwak, Vivek Patel, Michael Tilatti

- Modified, deleted, and created problems for every chapter of the book.
- Populated new chapters with problems
- Commented on every chapter

Development Cycle



Testing and Improving a New Text for Teaching Computer Science



Background

Most Traditional Computer Science Texts are:

- Long and Imposing
- Out of touch with student needs
- Out of touch with industry

Problem

Create an effective text:

- Assess and improve the text
 - Create teaching tools
 - Create new problem sets

Objectives

- Text itself
 - Revise or rewrite all 8 Chapters
- Teaching Tools
 - Create and test slides
- Problem Sets
 - Test and revise for all 8 Chapters

Results

- One entirely new book
- A lot of edits based upon real results
- An almost complete set of lecture slides
- Problems rearranged, edited, and recreated based on student feedback

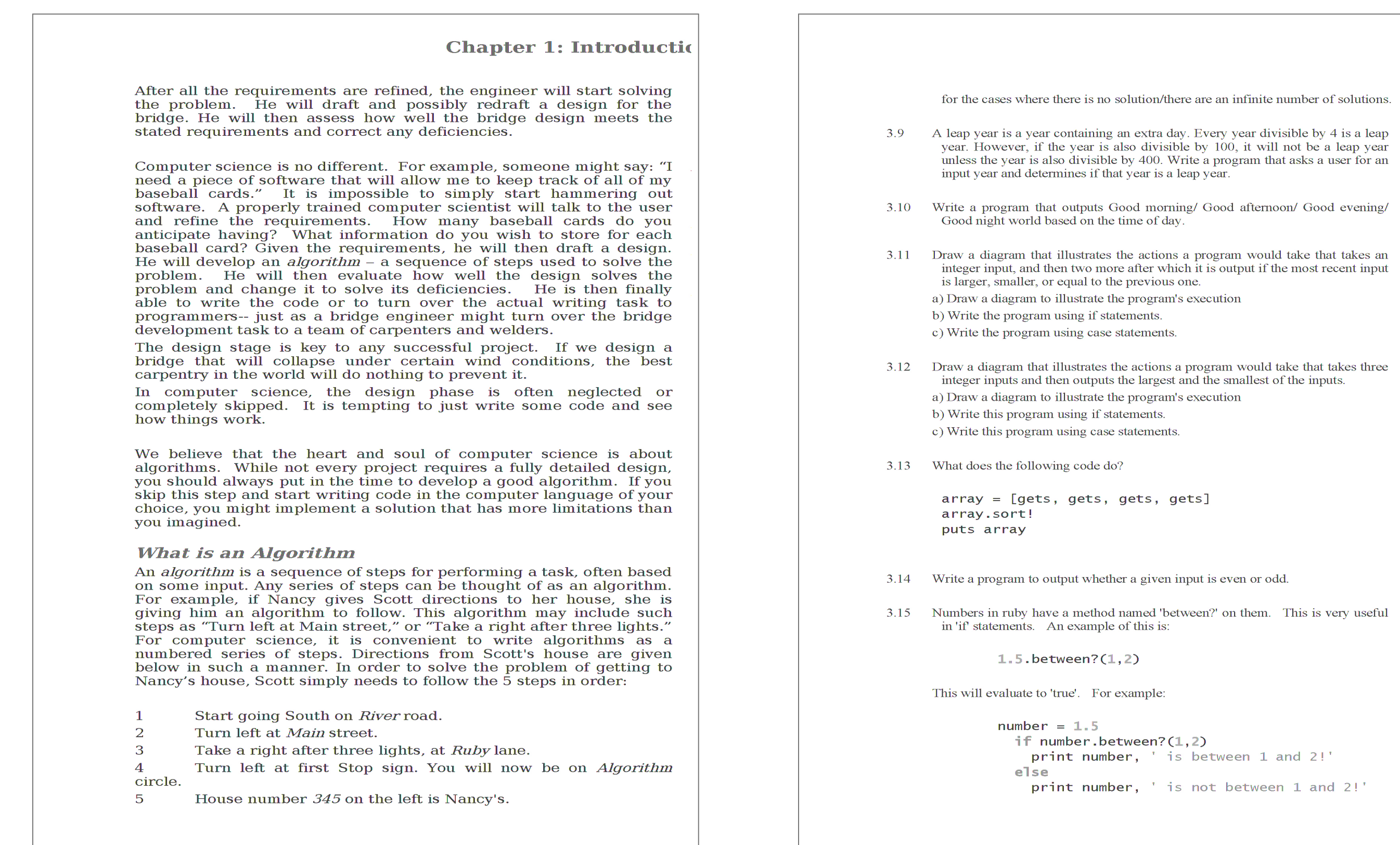
Phase One (Create original book draft)

• Last semester's IPRO was given a bare bones draft of a Ruby textbook provided by Prof. Frieder & Prof. Grossman

• They accomplished the following tasks:

- Improved & edited the text itself
- Developed 20~30 exercises per chapter and solutions for every exercise.
- Developed 5-6 programming examples
- Creating figures & accompaniments
- Created two Model Eliciting Activities

• The book was not perfected and needed a large scale revision phase, Phase 2 – this semester of IPRO 328



Phase Two (Test and Revise)

- Returning members from last years IPRO taught the class the contents of the book.
- Homework was assigned to class and graded by whoever lectured that week.
- Grades and class input were tracked using Google Docs and was used to drive changes to the book.

This innovative method allowed us to accomplish the following:

- We completely revised 7 of the chapters and created three entirely new chapters.
- 8 of the 10 chapters have lecture slides, and they have all been successfully tested.
- Problems from every chapter were revised and many new problems created.

