CSC 151 Spring 2020
Topic: Pair Programming

February 3, 2020

Day 06

Agenda for today

- Quiz 1
- Peer Support Opportunities
- Homework Questions?
- Pair Programming
- Continue on with Lab from Monday
- Wrap-up

Quiz 1

Peer Support Opportunities

- Men’s Basketball, Wednesday, 5:30pm

Other CS News

CS Table

- Tuesday (tomorrow) 12:00pm – 1:00pm in the Dining Hall
- Topic: "*Smartphones, surveillance, and classroom attendance. We'll be taking a look at a recent article about the deployment of a smartphone app at Syracuse University to help track student attendance in class.*"

Homework Questions?

Why do we ask you to work in pairs?

You've been programming in pairs (or triples) for a few days now. Using your experience, or examples from the reading:

Why do you think we ask you to work in pairs?

- You can expand your knowledge – my partner might have different ideas, or errors
- When you're not programming, it's another set of eyes to notice errors
- Fix each other's mistakes
- Syntax errors will be noticed more quickly – don't have to search the whole file right away
- You can bounce ideas off each others
- Accountability – you don't want to let your partner down – you'll program better

Why do we ask you to work in pairs?

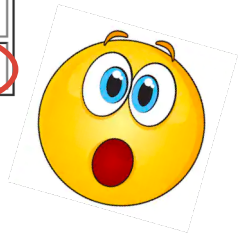
- A good way to meet new people
- When you vocalize your thought process it helps you learn better
- Make mistakes together – and when you talk about the mistakes out loud you remember it better for next time
- When you're typing it's easy to forget the "big picture" – you're partner can keep you on track.

Why do we ask you to work in pairs?

Assignment	Group	Elapsed Time	Total Time
Program 1	Individual	100%	100%
	Pair	80%	165%
Program 2	Individual	100%	100%
	Pair	57%	114%
Program 3	Individual	100%	100%
	Pair	58%	116%

Percentage of Test Cases Passed

	Individuals	Pairs
Program 1	73.4	86.4
Program 2	78.1	88.6
Program 3	70.4	87.1
Program 4	78.1	94.4



"Strengthening the Case for Pair Programming", *IEEE Software*, Volume 17, July 2000, pp. 19-25, and http://collaboration.csc.ncsu.edu/laurie/Papers/ieeeSoftware.PDF, based on first three assignments (41 students) at the University of Utah.

Pair Programming - Continued

We will now hand out slip of paper to each person in the room.
On the paper is a real quote from someone who previously took this course.

Take a moment to read the quote to yourself and process it.

Then discuss with your partner your thoughts on the quote.

- Have you experienced anything similar?
- Does it change your perspective/feeling about pair programming at all?

Pair Programming Thoughts

You've been programming in pairs (or triples) for a few days now.
Using this experience, or the quotes from previous years:

What has worked well when pair programming?
What hasn't worked well when pair programming?

Responses

What has worked well when pair programming?

- When both people communicate their ideas
- Switching off who is the driver and navigator
- Bouncing ideas off each other
- Asking your partner to explain or clarify something
- When the navigator is closely following and involved – to point out errors quickly
- Making sure both partners have done the reading
- Not being “set” on your way of thinking – being open to your partner’s ideas

Responses

What hasn't worked well when pair programming?

- It's easy to zone out when you're the navigator
- Only one person every typing
- Taking away the keyboard (or mouse!) when you're the navigator
- When one partner doesn't respect the other – not listening, cutting them off, not asking for opinions, not making sure your partner understands a solution
- "segregating" code, physically or mentally.
- Discouraging your partner

Lab Time

Upcoming Work

No Lab Submission for today

Please clean up the area around you!

Readings for Class

Read about Documentation before Wednesday

Assignment 2 is due on Thursday