Directions: Answer the questions in the spaces provided on the question sheet. Make your answers as concise as possible.

Name: _____

Department of Computer Science Millersville University of Pennsylvania **Instructor:** William Killian

This learning exercise includes **12** questions. The total number of points is **110**. This exam will be graded out of **100** points.

Page		ć	Points	Score
	2		35	
	3		15	
	4		25	
	5		20	
	6		15	
Total:		l:	110	

Reminders:

- Answer questions directly. Extraneous information may result in point deduction.
- Answer easier questions **first**, then move on to more difficult questions.
- You have at most **one hour and fifty minutes** to complete this learning exercise.

By signing, I promise I have not committed any act of **academic dishonesty** including:

- 1. Copying from a student's test paper or allowing a student to copy from one's test paper
- 2. Using the course textbook or other material (e.g. a notebook) during the test
- 3. Using any form of electronic device (laptop, mobile phone, smart watch) during the test
- 4. Sharing any information about the test with anyone who has not taken it

Student Signature