

Name:

Student Number:

Fundamentals of Programming, Second Partial Examination  
April 5 and April 8, 2016

The answers come from YOUR memory and ideas and must be **hand written**. Any suspicion of plagiarism will be sent for investigation of "Academic Dishonesty".

Bring your finished exam with you to class on the day of the exam and hand it to Ken BEFORE the start of the programming portion of the exam.

You must sign this exam to indicate your agreement with the above statements.

Signature(Firma)\_\_\_\_\_

ENGLISH or SPANISH is fine, whichever you like.

Answer on these pages or staple together with other pages for your answers.

1. Explain the following concepts (mastery topics) in the best way you can. You may use code, text, poems, cartoons, diagrams or whatever is easiest for you to show that you understand the concepts
  - a) How do you call functions?
  - b) How do you define/create functions?
  - c) How do you import and use modules?
  - d) Explain conditionals and usage of if, else and elif
  - e) Explain the workings and use of while loops
  - f) Explain the workings and use of for loop
  - g) Explain the use of recursion for repetitive algorithms
  - h) Explain when to use what type of repetition (for,while,recursion) in a program
  - i) Explain the use of strings and operations on them
  - j) Explain the use of arrays
  - k) Explain the use of vectors

2. Fill out the rubric on the following page to aid you in determining your grade so far in the course, this is cumulative of the work over partials one and two. You will have space in the next question to justify this number further in your own words.

Note, in the box on the right, multiply the scale that matches the chosen column by the weight of that row. For example, if you are answering "Satisfactory" for the "How many quizzes have you completed" row, the number on the right should be 80% of 20% which is 16% and so you would write 16% in the box on the right for that row.

You can adjust slightly (up or down) for any of these since you are the best judge of your progress on each scale. This is meant as a guide to give you a better handle on the self evaluation.

3. What is your grade (scale of 1 to 100) so far in this course? Justify why and what evidence you have to back that number up.

	REALLY Needs Improvement	Needs Improvement	Satisfactory	Good	Excellent	Weight on score	PLACE YOUR SCORE HERE
Scale	20%	60%	80%	90%	100%		
How many WSQs have you completed?	Less than 70% of them	At least 70% of them	At least 80% of them	All (WSQ0 to WSQ12)	All plus extras	20%	
How many quizzes have you completed (includes blog post and email to Ken)	missing more than three	missing three	missing two	missing one	All of them, including quiz#6	20%	
What is your average quiz completion time (emailed to Ken)	more than 4 days after quiz assignment	3 or 4 days after quiz assignment	Less than 2 days after quiz assignment	Same day as quiz assignment	During class period.	10%	
Quality of Blog Posts	Blog posts, what blog posts?	Includes code of solution	Includes code (screenshot or some other method), explains solution or how you found the solution.	Includes code linked via Dropbox or similar, explains solution and how you found the solution.	Includes code linked in GitHub; images to explain process or a video; shows solution, explains solution and how you found the solution.	20%	
How often have you helped other students in class or outside of class?	I work by myself and don't help others	I have other people help me and I guess that helps them	I work often with another student.	I work with more than one other student on problems.	I help other students that I did not know before this course.	5%	
How often have you commented on other students blogs?	Other students have blogs???	I read other student blogs but have not commented	At least once	Two or three times	Four or five times	5%	
How often do you post questions to Twitter?	What?	I post private messages to Ken or my colleagues asking for help	At least once in public with #TC101	At least 2 times in public with #TC101	At least 3 times in public with #TC101	5%	
How often do you monitor #TC101 on Twitter?	What?	I have logged into Twitter and looked maybe once per week	I check almost daily #TC101 on Twitter	I have answered other students at least once when they ask on #TC101	I am super helpful and have answered students at least twice when they ask on #TC101	5%	
How many times have you visited with Ken in Office Hours this semester?	Not Applicable	0	1	2	3 or more	5%	
How many absences do you have in this class?	6 or more	4 or 5	2 or 3	1	NONE! I have perfect attendance. Cookie please!	5%	
					Total	100%	