OAS Required Skill Module 1 due by UGTA meeting time the week of 9/22
Slacker or Obsessive--Statistics and Your Innate Confidence Level

Determine, using a statistics test, your innate confidence level in the way you assess information. Don't think too hard—just provide a gut response:

Q test data set 1: Given the following sequence of scores on exams in a course**:** **84, 81, 80, 83**
What is the closest, lower numerical score that you think is significantly different from the four exam scores.
Closest lower number _____

Now apply a Q test to determine your gut confidence level.

Q test data set 2: Given the following sequence of scores on exams in a course**:** **79, 76, 75, 78**
What is the closest, lower numerical score that you think is significantly different from the four exam scores.
Closest lower number _____

Now apply a Q test to determine your gut confidence level.

A thoughtful question. Are your Q test results similar for the two data sets. If not, what does this say about your number prejudice?

t-Test data set 3. Here is some data for C^{14} update in plant metabolism. Place a check mark next to the data set for which your gut first tells you the uptake data are different from the background counts.

Background counts:	**12, 15, 17, 15**	
Plant 1:	**15, 22, 17, 14**	same or different _____
Plant 2:	**19, 17, 23, 21**	same or different _____
Plant 3:	**19, 21, 25, 23**	same or different _____
Plant 4:	**24, 27, 22, 25**	same or different _____
Plant 5:	**31, 26, 24, 17**	same or different _____
Plant 6:	**31, 27, 25, 25**	same or different _____

Now perform a t-test for the data where you placed your check mark. What is your confidence level?

So what are you, slacker or obsessive? Do the statistical test results confirm this?