

**Foundation Exam Review Class Lesson Plan – Week 2 (March 25, 2015)**

**Location: HPA1-116, 3:30 – 4:25 PM**

1) (30 min) Peer Grade Computer Science May 2009

2) (10 min) Discuss gray areas in grading criteria, explain what the criteria is communicating to the student about the relative importance of various skills. Discuss the idea of question intent.

3) (10 min) Talk about the importance of reading a question carefully AND understanding it, differentiating it from other versions of the question. Case Study:

An odd-recursive palindrome is a palindrome of the form  $WxW$ , where  $W$  is an odd-recursive palindrome and  $x$  is any letter in the alphabet. (Note: A palindrome is a string that reads identically forwards and backwards.) We define any single letter as an odd-recursive palindrome as well. Examples of odd-recursive palindromes are 'a', 'tat', 'abacaba' and 'abacabazabacaba'. Write a function that takes in a string, a starting index into that string, inclusive, and an ending index into that string, exclusive, and returns true if and only if the designated substring is an odd-recursive palindrome. You may assume that all characters in `str` are letters and that `sIndex` and `eIndex` are valid starting and ending indices. Fill out the function prototype provided below. Note: You may not use any functions in the `string.h` library.

```
int oddRecPal(char* str, int sIndex, int eIndex)
```

Most common error: Students coded regular palindrome check recursively.

Items to note: if this were defining palindrome, it wouldn't be so long and it wouldn't be called "odd-recursive palindrome". The reader should *immediately* ask themselves, "How is this question *different* than identifying a palindrome?"

4) (5 min) Give practice exam (Discrete Structures May 2009)