

Exam 2 review problems

CSCI 110 Section 1

Monday, October 24, 2016

- 1) What's the difference between a function call and a function definition?
- 2) What makes a function recursive?
- 3) Why can some types of parameters be modified by functions and others can't?
- 4) Write a function to find the min value in a 2D array of double.
- 5) Write a function to return the shortest string in an ArrayList<String>.
- 6) Write a recursive function to find the sum of even integers from 2 to n.
- 7) What's printed if we call mystery(2)?

```
void mystery(int n) {  
    if (n > 10) {  
        System.out.println("wow");  
        return;  
    }  
    mystery(n * 3);  
    System.out.println("word");  
}
```

- 8) Define a class that represents a box of mints. Include a member variable that represents how many mints are left. Write a constructor and a method eat() that returns true if it's still possible to eat a mint. If it was, then the number of mints should be reduced by 1.
- 9) Write a function that takes a timestamp like "13:40" and returns the sum of the hours and minutes as an int. Given "13:40", the function should return 13 + 40 = 53.
- 10) Write a function that takes an ArrayList<String> and replaces each string that's equal to "TODO" with the string "DONE".