Saturday, 11 July 15

Crux Lecture -2

Programming Fundamentals -1

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Java Virtual Machine



Components of the Magic Box





BT – Greedy Pirates

A pirate ship captures a treasure of 1000 golden coins. The treasure has to be split among the 5 pirates: 1, 2, 3, 4, and 5 in order of rank. The pirates have the following important characteristics: infinitely smart, bloodthirsty, greedy. Starting with pirate 5 they can make a proposal how to split up the treasure. This proposal can either be accepted or the pirate is thrown overboard. A proposal is accepted if and only if a majority of the pirates agrees on it. What proposal should pirate 5 make?



BT – Infinite Quarter Sequence

You are wearing a blindfold and thick gloves. An infinite number of quarters are laid out before you on a table of infinite area. Someone tells you that 20 of these quarters are tails and the rest are heads. He says that if you can split the quarters into 2 piles where the number of tails quarters is the same in both piles, then you win all of the quarters. You are allowed to move the quarters and to flip them over, but you can never tell what state a quarter is currently in (the blindfold prevents you from seeing, and the gloves prevent you from feeling which side is heads or tails). How do you partition the quarters so that you can win them all?



Any doubts on assignment?



Eclipse?



Time to write Hello World!



Print table of Fahrenheit to Celsius

Print the following table for Fahrenheit to Celsius using Formula C = (5/9)(F - 32)

```
-17
0
     -6
20
40
60
    15
80
     26
100
     37
120
    48
140
    60
    71
160
180
    82
200
    93
     104
220
     115
240
260
    126
280
     137
300
     148
```



Change Code to take User Input



Lets do these problems

- Find min and max out of 5 numbers
- Check if a number is prime
- Write code to print the following pattern

1

23

456

78910



Time to Try?

- Print all Fibonacci number less than N
- Find all prime numbers between 2 to N
- Write code to print the following pattern

1

232

34543

4567654

567898765





Thank You!!

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