Assignment 4

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General Tips

• "Any fool can write code that a computer can understand. Good programmers write code that humans can understand." --- Martin Fowler

• Variable names – Use meaningful variable names
• Indentation – Use spaces(not tabs). Show the structure of code flow and scope clearly.
• Comments – Use them! But, avoid trailing comments

• Refer this nice style guides:; [Style Guide 1](#), [Style Guide 2](#)
Problem 1

• Make sure to use correct class name – ‘Choices’
• Refer the BigInteger API to find out useful functions such as – multiply, divide, subtract, valueOf, compareTo etc
• Use a loop to calculate factorial of a number.
• Try using multiple functions to avoid code redundancy(repeated codes).
Problem 2

- Make sure to use correct class name – MyDate.java
- MyDate.java should have these:
  1) private Instance variables (class variables)
  2) public Constructor – MyDate(<int>,<int>,<int>)
  2) public Methods – getDayOfWeek(), getDayOfYear(), isValidDate(), toString()
- Do not use any Date classes or any advance class outside the default java.lang package!
- In order to test your code put both your java files in same directory – FindDay.java & MyDate.java
- Do not turn-in FindDay.java!
Problem 2 (continued)

- Some extra tips (my personal suggestions)-
  - Calculators you can use to verify your answer – Leap Year, Day Of Week
  - You can re-use your code from Assignment 2 Problem 3
  - For getDayOfWeek() do not spend too much time figuring out the best possible algorithm. Instead try and re-use an existing algorithm available on the internet. I personally find these two algorithms useful although I’m not sure if it is accurate – Algorithm 1 or Algorithm 2
Problem 3

• Turn in – Customer.java, Account.java & BankTester.java
• Do NOT turn in – Address.java
• In order to test your code – put all 4 java files in the same directory.
• Remember that public static void main() will be present only inside – BankTester.java
• Using instance object methods –
  
  customer.getSavings().deposit(1000);