LoopingFun

Complete the following methods for the LoopingFun class. These methods will be on your next quiz.
Look for the most efficient algorithms. They are listed alphabetically. I have included numbers to determine the best order to complete these.

Method Summary	
15 int	**binary**(int n) Returns the binary (Base 2) equivalent on integer n:
10 void	**coinTrials**(int n) Returns the results(totals) of a simulation experiment of n trials of a coin toss: ie (for n = 100). Heads: 47 Tails: 53
11 int	**countDigits**(int n) counts the digits an integer n
3 long	**factorial**(int n) Calculates the value of n! (factorial): n*(n-1)*(n-2)*...*3*2*1.
12 void	**fibonacci**(int n) Lists the first n terms of the fibonacci sequence 1,1,2,3,5,8,13,...
7 int	**gcf**(int a, int b) Returns the greatest common factor of integers a, b
4 boolean	**isEven**(int n) Test integer n for evenness. Return true if even. Return false if odd.
13 boolean	**isPerfect**(int n) Determines if this number is perfect (sum of proper factors = number) 6 is a Perfect number 6 = 1+2+3
5 boolean	**isPrime**(int n) Test integer n for prime or not prime
6 int	**lcm**(int a, int b) Returns the least common multiple of integers a, b)
14 void	**primeFactorization**(int n) Lists the prime factorization on integer n
9 void	**primeNumberList**(int n) Lists the prime numbers less than or equal to n
1 String	**printFactors**(int n) Lists the factors of an Integer n.
9 int	**reverseNum**(int n) Forms a new number that is the reverse of this number.
16 void	**pyramid**(int n) * if n=4 * * * * * * * * * * * * * * *
8 int	**sumDigits**(int n) Calculates the sum of the digits of int n
2 int	**sumInts**(int n) Calculates the sum of the positive integers less than and including n: n+(n-1)+(n-2)+...+3+2+1.