Problem Set 4 Exercise #27: Odd Digit Sum

Reference: Lecture 12 notes
Learning objective: Recursion

Estimated completion time: 40 minutes

Problem statement:

[CS1101 AY2003/04 Semester 1 Exam Q18(b)]

Write a static recursive method

boolean isDigitSumOdd(int num)

that takes a positive integer **num** as parameter and returns true if the sum of individual digits is odd, or false otherwise.

Write a program **PS4_Ex27_OddDigitSum.java** for the above task. You should not use any loop structures (*for, while* or *do-while* loop) in your program.

Sample run #1:

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Enter a positive integer: 12
Sum of digits for 12 is odd
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Sample run #2:

Enter a positive integer: 123789 Sum of digits for 123789 is even