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**Create a Java program that asks for an integer from the user. Use a method that will determine whether or not the integer given by the user is narcissistic or not.**

**Problem:**

In recreational number theory, a narcissistic number is a number that is equal to the sum of its own digits each raised to the power of the number of digits.

Example, 153 is a narcissistic number because 153 has 3 digits, and 13+53+33 = 1 + 125 + 27 = 153.  8208 is narcissistic because 84+24+04+84 = 4096 + 16 + 0 + 4096 = 8208.

Create a java program that asks for an integer from the user. Use a method that will determine whether the integer given by the user is narcissistic or not.

The following are narcissistic numbers: 1, 2, 3, 4, 5, 6, 7, 8, 9, 153, 370, 371, 407, 1634, 8208, 9474, 54748, 92727, 93084, 548834, 1741725, 4210818, 9800817, 9926315, 24678050, 24678051,88593477, 146511208, 472335975, 534494836, 912985153, 4679307774, 32164049650, and 32164049651.

Example:  
    Enter number: 123  
    123 is not a narcissistic number.

    Enter number: 153  
    153 is a narcissistic number.

    Enter number: 8208  
    8208 is a narcissistic number.

Note: Submit a documentation of your work together with your source code. The documentation should include the following information: statement of the problem, and a description of your solution. The description can be in paragraph form, which can also include graphs (flowcharts) to help describe what you are writing, and/or a pseudocode of your solution.

**Documentation Pseudocode (THIS IS WRONG PSEUDOCODE)**

1. Program start
2. Initialize int variables num, length, digit, power, orig, and sum=0
3. Initialize string variable s
4. Call inputNum
5. Output message to proc user to input an integer
6. Save input as value for num variable
7. Save num value as value for orig value
8. Call checkNum
9. Convert num value from int to string and save as value for s variable
10. Find string length of s and save value in length variable
11. Start while loop
12. Reduce num modulo 10 and save as value of digit variable
13. Num is divided by 10 and quotient is saved as new value of num
14. Using math operator pow get the value of digit raised to value of length and result is saved as value of power variable
15. Resulting pow values are summed and value is given to sum variable
16. End loop
17. Check if new value of sum is equal to orig value
18. If true, print affirmation that number input is Narcissistic
19. If false, print that number input is not Narcissistic
20. End Program