

Problem #9

Perfect Number Checker

A positive integer is said to be a perfect number if it is equal to the sum of its positive divisors less than itself. For example, 28 is perfect, because

$$28 = 1 + 2 + 4 + 7 + 14$$

On the other hand, 12 is not perfect, because

$$12 \neq 1 + 2 + 3 + 4 + 6$$

You are to write a program that prompts the user to enter a positive integer and responds by reporting whether or not the given number is perfect.

Example 1:

Enter a positive integer: 12

12 IS NOT perfect.

Example 2:

Enter a positive integer: 28

28 IS perfect