



Perfect Travelers 1

by matfah

Problem

Submissions

Discussions

Crush is helping Marlin, Nemo, and Dory cross the ocean and reach California. Crush loves when there is a "perfect" number of travelers. Nemo doesn't know what that means, but Crush explains that a "perfect" number is one where the sum of the proper divisors is equal to the original number. For example, the number 28 is perfect because $1 + 2 + 4 + 7 + 14 = 28$, but the number 27 is not because $1 + 3 + 9 \neq 27$.

Skeleton: <https://drive.google.com/file/d/0BxxolsFkwnDqVVE4X0JUbzhhhUVk/view?usp=sharing>

Input Format

One line containing an integer n , representing the number of travelers.

Constraints

 $1 \leq n \leq 2,147,483,647$

Output Format

The output should consist of a single line. If the number is perfect, print PERFECT. If the number is not perfect, print NOT PERFECT.

Sample Input 0

28

Sample Output 0

PERFECT

Sample Input 1

27

Sample Output 1

NOT PERFECT



Submissions: 47

Max Score: 1

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Run Code

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