

Problem E. Easy Equation

Input file: *standard input*
Output file: *standard output*
Time limit: 1 second
Memory limit: 64 mebibytes

Find the number of solutions of the equation

$$x^5 + y^4 + z^3 + w^2 + t = n,$$

, where $x, y, z, w,$ and t are positive integer variables, and n is a known positive integer.

Input

A single line containing integer n ($1 \leq n \leq 10^9$).

Output

Print a single integer – the number of solutions.

Examples

standard input	standard output
12	3
2019	7386
1000000	26734730