## Problem G．Factor

| Input file： | standard input |
| :--- | :--- |
| Output file： | standard output |
| Time limit： | 5 seconds |
| Memory limit： | 1024 mebibytes |

Let $\mathbb{F}_{x}$ be the set of all factors of integer $x$（recall that positive integer $f$ is a factor of $x$ if $x$ is divisible by $f$ ）．If for all $1 \leq y \leq x$ there exists a subset of $\mathbb{F}_{x}$ such that the sum of elements in this subset equals $y$ ，then $x$ is considered a good integer．
For example， 6 is good because $\mathbb{F}_{6}=\{1,2,3,6\}$ and $4=1+3$ and $5=2+3.5$ is not good because $\mathbb{F}_{5}=\{1,5\}$ and we can＇t find a subset whose sum equals 2,3 or 4 ．
Given an integer $n$ ，calculate the number of good integers such that $1 \leq x \leq n$ ．

## Input

There is only one test case in each test file．
The first and only line contains an integer $n\left(1 \leq n \leq 10^{12}\right)$ ．

## Output

Output one line containing one integer indicating the number of good integers such that $1 \leq x \leq n$ ．

## Examples

| standard input | standard output |
| :--- | :--- |
| 10 | 5 |
| 20 | 9 |
| 50 | 17 |

