Terminating fractions

Time Limit: 1 Second
Memory Limit: 2048 MB

How many fractions $\frac{x}{y}$ written in decimal form have a finite number of digits, where $1 \leq x, y \leq n$?

Input

The input only consists of one integer n.

Output

Output one integer, the answer to the above question.

Sample Inputs

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Sample Outputs

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