

D. Minimax exchange (round 2)

Input: standard input (from the keyboard)

Output: standard output (to the screen)

Time limit: 1 second

Memory limit: 256 Mb

Problem

There are coins of 1, 2, 5, 10, 25 and 50 kopykas in Ukraine. Obviously, any amount of money may be represented with these coins. Let's name a representation minimal, if it is impossible to replace some coins with a single coin of the same value. For example, a representation 2+2+1+1 is not minimal, because the coins of 2, 2 and 1 kopyka could be replaced by a coin of 5 kopykas, and a representation 10+10+10 is minimal (regardless that there is a representation 25+5 with less quantity of coins). For a given amount find the maximal quantity of coins, with which it is possible to make a minimal representation of this amount.

Input

There is a natural number n – the given amount in kopykas ($n \leq 1000000$), in the input.

Output

Output the maximal quantity of coins, with which it is possible to make a minimal representation of amount of n kopykas with coins of 1, 2, 5, 10, 25 and 50 kopykas.

Examples

Input	Output
10	1
33	5
2011	46

Comment

10 kopykas may be represented only with one coin – other exchanges wouldn't be minimal, because they could be replaced with a single 10-kopyka coin. The representations for other examples are: $33=10+10+10+2+1$ and $2011=50 \cdot 39+25+10+10+10+2+2+2$.