

# Collect the money

Имя входного файла:            стандартный ввод  
Имя выходного файла:        стандартный вывод  
Ограничение по времени:    1 секунда  
Ограничение по памяти:      64 мегабайта

The boy John wants to understand in how many ways he can pay for his toy worth  $N$  rubles, while there is no money for change in the store. Two ways to pay are considered different if the disordered set of bills of the first method differs from the disordered set of the second method. Since he has an unlimited number of banknotes in denominations of 50, 100 and 200 rubles, it is too difficult for him to give an answer to this question. Help him.

## Формат входных данных

The first line of input data contains a single non-negative integer  $N$  ( $0 \leq N \leq 10^6$ ) - the cost of the toy.

## Формат выходных данных

Print the number of different ways to buy a toy worth exactly  $N$  rubles in bills of 50, 100, 200 rubles, provided that it is impossible to give change to John.

## Система оценки

The tests for the task are divided into 3 groups:

- 0) The tests from the condition — 0 points
- 1)  $N \leq 10^5$  — 50 points only when passing all group tests
- 2)  $N \leq 10^6$  — 50 points only when passing all group tests

## Примеры

стандартный ввод	стандартный вывод
50	1
36	0
200	4