

Sorry Sorry

There are two of students are annoying Engineer Maha so she decided to punish them.They said sorry sorry we won't do it again and because she is so kind she will punish one student only .She suggested something ,she will choose a number N and each student will decrease the number by one till it becomes zero the student who can't decrease the number she will punish him and always the first student start.

Your task to create a program to tell who will be punished by Engineer Maha.

Input

The only line of input contains integer N ($1 \leq N \leq 1000$).

Output

Print "the first" or "the second" (without quotes), depending on the answer.

Examples

Input:

5

Output:

the second

Input:

2

Output:

the first