Task F. King of Misopotamia (1 point)

The king of Misopotamia is a very generous man: when they come to him and ask for help, he gives exactly one of the most expensive gift he has in the treasury. He also has another interesting feature – he accepts any gift presented to him. But he cannot receive visitors all day, so only N people can get to him per day. For each visitor, the vizier keeps a record. In order not to write a lot, the vizier came up with a system: if a visitor brought a gift in the amount of S, then in the protocol he writes 0 S, and if he asks for help, then 1.

Retrieve the list of King-given gifts according to the protocol.

Input format

The first line contains the number of visitors N ($1 \le N \le 100000$). This is followed by N lines, in the i-th of which there is an entry about the i-th visitor.

It is guaranteed that at the time of issuing a gift in the treasury there is at least one gift, and the cost of prizes is integers in the range from 0 to 10^9 .

Output format

For each line of issue it is necessary to print a number in a separate line – the value of the issued gift.

Sample input:

10

0.941

0 6077

1

0.9560

1

 $0\ 12770$

1

0 2117

 $0\ 1791$

1

Sample output:

6077

9560

12770

2117