



Goal

The marathon is a sporting event where participants must run 42 kilometers. At a pizza party with your friends, you discuss the next marathon to be held in your city. Your friends are convinced that you are not able to finish the race and you swear to them that you are sure to finish in the top 100.

The bets are launched:

- If you finish in the top 100, you win 1,000 euros;
- If you finish the marathon, you win 100 euros;
- If you do not finish the marathon, you will just lose your credibility.

You go through the starting line at a certain position. Then at the end of every kilometer, you count the number of people who have passed you and those you have overtaken during this kilometer. Thus you know your ranking.

In this challenge, we consider that the marathon is exactly 42km and that if you finish after the 10,000th place, it means that you have retired.

Data

Input

Row 1: an integer between 1 and 10 000 corresponding to your ranking when you pass the starting line.

Row 2 to 43: two integers separated by a space representing, respectively, the number of persons who have passed you and those you have overtaken during a given kilometer.

Output

An integer corresponding to the amount won during your bet. If you do not win anything, return the string *KO*.

You can download sample input and output data files to work locally by clicking on the link at the bottom of the French version of the question.



Téléchargez des fichiers d'exemple ainsi qu'un modèle de code pour travailler localement.