DRILL

Zoom is selected as one of the participant of the TV show "Quick Question, Ace Answer". To ensure that the participants are on an equal playing field, the host will give all the contestants a proposal of n questions and their answer. The question asked during the show is guaranteed to belong to this proposal.

Unfortunately, on the recording day, Zoom catch a cold and is unable to participate directly. Therefore, he decided to make a robot that looks the same as him, and let the robot participate in his place. Your task is to help Zoom program the robot so that it can correctly answer all the questions in the show and win the grand prize.

Implementation Details

You should implement the following procedure:

```
void drill(string question, string answer)
```

- `question`: the content of the question.
- `answer`: the answer to this question.
- The procedure will be called n times, each call will provide the information of a question in the proposal.

```
string query(string question)
```

- `question`: the content of the question.
- The procedure should return the answer correspond to this question.
- The procedure will be called m times. After the first call to this procedure, there will be no further call to the `drill` procedure.

Constraints

- $1 \leq n, m \leq 100$
- The strings that represent the questions and answers will only contain lowercase Latin letters, and has between 1 and 100 characters.
- The answer to the question in `query` procedure calls will always be provided by the `drill` procedure calls.

Examples

Consider the following call:

```
drill("whatsyourname", "zoom");
drill("howoldareyou", "eighteen");
drill("whereareyoufrom", "vietnam");
query("whatsyourname");
query("howoldareyou");
query("howoldareyou");
query("whatsyourname");
```

The procedure `query` should respectively return the following strings: `zoom`, `eighteen`, `eighteen`, `zoom`

Subtasks

1. (10 điểm) $n = 1$, $m = 1$
2. (90 điểm) No additional constraints.

Sample Grader

The sample grader reads in the input in the following format:

- The first line contains two number n and m.
- n next pairs of lines, the first line contains the question, the second line contains the answer to the question in the previous line.
- m next lines, each line contain a question that will be asked by the `query` procedure call.

The sample grader prints your answers in the following format:

- m lines, each line contain the answer returned by the `query` procedure call.