

Long words

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Write a program that checks whether a given text reaches a goal number of words of at least a given goal length. The program reads first the goal number n and the goal length m ; they are integers coming in the first line. Then finds out whether the text that follows them contains at least n different words of length at least m . If so, it outputs the n words, sorted according to the standard string ordering, each in a line. Otherwise, it prints Goal not attained.

Input

Input consists of two numbers n and m , being respectively the goal number and the goal length, followed by a sequence of words. Numbers n and m are integers, n is greater than zero and m is non negative.

Output

In case the goal is achieved, the output consists of n lines with the n first different words in the input text whose length is at least m . Words are shown according to the standard string order, one by line. When goal is not reached, a line with the message Goal not attained

Sample input 1

```
2 4
truck
truck
bike
plane
```

Sample output 1

```
bike
truck
```

Sample input 2

```
2 5
truck
bike
truck
plane
```

Sample output 2

```
plane
truck
```

Sample input 3

```
3 5
truck
car
bike
plane
```

Sample output 3

```
Goal not attained
```

Problem information

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