Problem 17

Problem

Submissions

Discussion Coming Soon

Türkçesi İçin Tıklayınız

Berat decides to ask Yasin after a day of thinking about solving an algorithm problem given at school. In the problem there are ***n*** strings of length ***m***. And he is asked to sort these strings. However, this sorting process is not an ordinary sorting. When comparing strings, we are asked to sort the characters whose index is prime number in "descending order", and the non-prime numbers in "ascending order". Yasin solved this problem in 5 minutes with his superior algorithmic skills. Berat decided to put it in the HUPROG qualification round because he was wondering how long it would take others to solve this question.

Input Format

The first line contains two integers. ***n*** and ***m***.

Other ***n*** lines contain words. (All letters are lowercase)

Output Format

Print the sorted words in lines.

In the last line, print the indexes of the strings according to the inputs given (If two strings are same, the lower index number should be printed first.)

Constraints

$0 \leq N \leq 4000$

$0 \leq M \leq 10000$

Sample Input 1

```
5 5
abcde
abcef
abdeg
aabef
abzdu
```

Sample Output 1

```
aabef
abzdu
abdeg
abcef
abcde
4 5 3 2 1
```

Explanation 1

Explanation for the strings abzdu and abdeg: There is no change at indexes 0 and 1. Since the second index is prime, we need to sort by descending order. For this reason, the word abzdu comes before the word abdeg.

C++ Bright **Memory Limit (kB) :** 256000 **Time Limit (s) :** 1

```
1  //Brace your keyboard
2  //inzva community built algoleague for every algorithm enthusiast hungry for self-improvement and fri
3
4  #include <bits/stdc++.h>
5
6  using namespace std;
```

```
7
8  int main() {
9  // write your code here
10
11      return 0;
12 }
13
```

Upload File

Run Code

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