

## Strange Planet

Right now Lili is in a strange planet and she wants to study the calendar system of said planet. Each year on the planet consists of  $N$  months and each month on the planet consists of exactly  $K$  days. Bibi arrived on the planet on the first day of the first month, and now she has  $T$  questions: What's the month and date on Bibi's  $A_i$ -th day on the planet? Help her to answer the questions!

### Format Input

The first line contains the numbers  $N$  and  $K$ . The next  $N$  lines contain  $S_i$  which is the name of the  $i$ -th month. The next line then contains  $T$  and next  $T$  lines contain  $A_i$ .

### Format Output

For each question, output one line starting with "Case # $X$ : " (without quotes) where  $X$  is the question number (starting from 1) followed by the month and date on Bibi's  $A_i$ -th day on the planet.

### Constraints

- $1 \leq N, K \leq 100$
- $1 \leq Q \leq 1000$
- $1 \leq A_i \leq 1000000$
- $1 \leq |S_i| \leq 100$  ( $|S_i|$  means the length of  $S_i$ )
- $S_i$  only contains lowercase English letters a-z

### Sample Input 1 (standard input)

```
12 30
january
february
march
april
may
june
july
```

```
august
september
october
november
december
10
1
2
31
69
360
361
362
420
720
1337
```

### Sample Output 1 (standard output)

```
Case #1: january 1
Case #2: january 2
Case #3: february 1
Case #4: march 9
Case #5: december 30
Case #6: january 1
Case #7: january 2
Case #8: february 30
Case #9: december 30
Case #10: september 17
```

## Strange Planet

Sekarang Lili sedang berada di planet yang asing dan ia ingin mempelajari sistem kalender di planet tersebut. Setiap tahun di planet tersebut terdiri dari  $N$  bulan dan setiap bulan di planet tersebut terdiri dari tepat  $K$  hari. Bibi tiba di planet tersebut pada hari pertama bulan pertama, dan sekarang ia punya  $T$  pertanyaan: Apa bulan dan tanggal pada hari ke  $A_i$  Bibi di planet tersebut? Bantulah ia untuk menjawab pertanyaan tersebut!

### Format Input

Baris pertama terdiri dari bilangan  $N$  dan  $K$ .  $N$  baris selanjutnya mengandung  $S_i$  yaitu nama dari bulan ke- $i$ . Baris selanjutnya kemudian mengandung  $T$  dan  $T$  baris selanjutnya mengandung  $A_i$ .

### Format Output

Untuk setiap pertanyaan, tampilkan satu buah baris yang dimulai dengan “Case # $X$ : ” (tanpa kutip) dimana  $X$  adalah nomor pertanyaan (dimulai dari 1) kemudian diikuti oleh bulan dan tanggal pada hari ke  $A_i$  Bibi di planet tersebut.

### Constraints

- $1 \leq N, K \leq 100$
- $1 \leq Q \leq 1000$
- $1 \leq A_i \leq 1000000$
- $1 \leq |S_i| \leq 100$  ( $|S_i|$  berarti panjang dari  $S_i$ )
- $S_i$  hanya mengandung alfabet bahasa Inggris a-z

### Sample Input 1 (standard input)

```
12 30
january
february
march
april
may
june
```

```
july
august
september
october
november
december
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### Sample Output 1 (standard output)

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Case #7: january 2
Case #8: february 30
Case #9: december 30
Case #10: september 17
```