Hi all,

Road Maintenance

Lok

Regular Expression

&

Backus-Naur Form

Wally

Prefix Free Code

Prefix Free Code

https://open.kattis.com/problems/prefixfreecode

- N strings of lower case letters, where no string is a prefix of any other string
- choose K of strings and concatenate them
- sort composite strings you get in previous steps in alphabetical order
- given a test composite string, find its position, modulo 10^9+7 (first in the list is at position 1)

Prefix Free Code

Sample Input 1

5 3
a
b
c
d
e
cad

Sample Output 1

26

Prefix Free Code

Sample Input 2
```
8 8
font
lewin
darko
deon
vanb
johnb
chuckr
tgr
deonjohnbdarkotgrvanbchuckrfontlew
in
```

Sample Output 2

12451

Validate Email Address

Validate Email Address

Sample email addresses:

- smith@outlook.com

- smith.123@osu.edu

- john.smith+123@gmail.com

- 000.john.smith.123+567@buckeyemail.osu.edu