**Task**

**Algorithm**

**Problem Statement**

Twitter shows **trends** in order to make its users aware of the trending news. These trends are nothing but trending hashtags that the users are tweeting about. For example: If thousands of users are talking about Riyad Mahrez by adding a hashtag #Mahrez in their tweet, then Mahrez will be a trending hashtag. Couple of example tweets with hashtag **#Mahrez** could be:

* **#Mahrez** will not leave Leicester City in January.
* Manchester City end interest in **#Mahrez** after rejecting £95m price tag.

Given a list of **N** tweets, your task is to find top the five trending hashtags. Each tweet, let's call it **S**, will contain at least **one** word with hashtag. There will be maximum of **three** hashtags in any tweet. All hashtags in a single tweet will be unique.

**Input:**

First line of the input will contain **N** denoting the number of tweets.  
Next **N** lines, each will contain a string **S**.

**Output:**

Print the top five trending hashtags. In case of tie between any two hashtags, print them in lexicographical order in a new line.

**Constraints:**

* **5≤N≤10**
* **1≤**|**S**|**≤140** where |**S**| denotes length of string **S** i.e. length of tweet.
* Any hashtag denoted by **H1≤**|**H**|**≤20** where |**H**|denotes length of any hashtag **H**.

**Note:**

- Any tweet is composed of lowercase and uppercase English letters, digits and spaces.

- Any hashtag begins with # and the subsequent characters will only contain lowercase and

uppercase English letters and digits.

**Sample Input Sample Output**

**5**

**#Mahrez** will not leave Leicester City in January. **#Algeria**

I have 2 new followers from **#Algeria** last week. **#Mahrez**

**#Italy** represents 16% of the overall **#export** of **#Algeria. #Italy**

follow us on **#twitter** to get the lastest news about **#Algeria. #export**

Manchester City end interest in **#Mahrez** after rejecting £95m price tag. **#twitter**