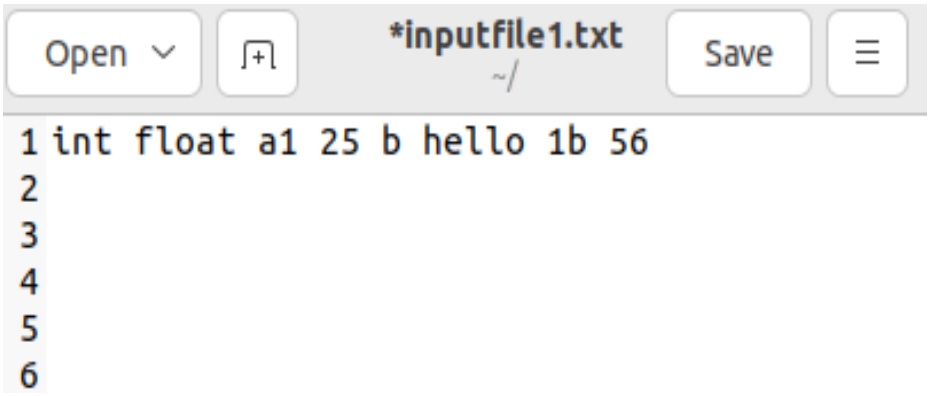
Assignment 4 – 03 - April - 2023

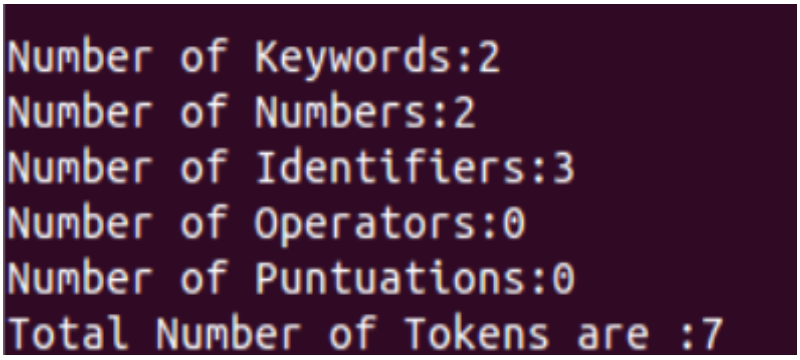
Write the Lex program for the following :

1 To Recognize different tokens in the given input file : **Keywords, Identifiers, Constants, Operators** and **Punctuations**. (4M)

Input



Output



2

A new video about the recent developments in coding has been published on social media. After some time, it is seen that there are N comments added. The admin wants to search for the keyword K in the comment section and the sequence of the keyword. (6M)

[Note : input file containing comments can also be considered (optional).]

Function description

Consider the function *solution()*. The function takes the following 3 parameters and returns solution:

- *N* : Represents the number of comments.
- *K* : Represents the keyword.
- *comments* : Represents the array of comments.

Input format

The first line contains *N* denoting the number of comments.

The second line contains *K* denoting the keyword.

Each of the next N lines contains a string denoting a comment.

Output format

Print an integer representing the number of comments containing the keyword, -1 in case of unacceptable comments .

Constraints

$1 <= N <= 10^5$

$1 <= |K| <= 10$

$1 <=$ sum of length of all comments $<= 10^5$

K and Comments contain only lower or upper case characters and underscores.

Sample Input	**Sample Input**	**Sample Input**
2 good The_video_is_good Informative **Sample output** 1	4 helpful Most_expensive_topic_now_a_days It_was_really_helpful This_is_very_helpful_video Productive_talk **Sample output** 2	2 usefull #Most_wanted_and_usefull_video Thanks a lot… **Sample output** -1