

At HackerRank, we always want to find out how popular we are getting every day and have scraped conversations from popular sites. Each conversation fits in 1 line and there are  $N$  such conversations. Each conversation has at most 1 word that says *hackerrank* (all in lowercase). We would like you to help us figure out whether a conversation:

- 1. Starts with *hackerrank*
- 2. Ends with *hackerrank*
- 3. Start and ends with *hackerrank*

### Input Format

First line of the input contains an integer,  $N$ . Then  $N$  lines follow.  
From the second line onwards, each line contains a set of  $W$  words separated by a single space

### Constraints

- $1 \leq N \leq 10$
- $1 \leq W \leq 100$
- All the characters in  $W$  are lowercase alphabet characters.
- If  $C$  is the count of the characters in  $W$ , then  $1 \leq C \leq 20$

### Output Format

For every line,

- 1. Print 1 if the conversation starts with *hackerrank*
- 2. Print 2 if the conversation ends with *hackerrank*
- 3. Print 0 if the conversation starts and ends with *hackerrank*
- 4. Print -1 if none of the above.

### Sample Input

```
4
i love hackerrank
hackerrank is an awesome place for programmers
hackerrank
i think hackerrank is a great place to hangout
```

### Sample Output

```
2
1
0
-1
```

## Explanation

The first conversation ends with *hackerrank* and hence 2

The second conversation starts with *hackerrank* and hence 1

The third conversation has only one word, it starts and ends with *hackerrank* and hence 0.

The fourth conversation satisfies none of the above properties and hence -1.

## Viewing Submissions

You can view others' submissions if you solve this challenge. Navigate to the challenge leaderboard.