PL-2020-C-Password

locked

Problem | Submissions | Leaderboard | Discussions

Danny has a possible list of passwords of Manny's facebook account. All passwords length is odd. But Danny knows that Manny is a big fan of palindromes. So, his password and reverse of his password both should be in the list.

You have to print the length of Manny's password and it's middle character.

Note: The solution will be unique.

Input Format

The first line of input contains the integer N, the number of possible passwords. Each of the following N lines contains a single word, its length being an odd number greater than 2 and lesser than 14. All characters are lowercase letters of the English alphabet.

Constraints

$1 \leq N \leq 100$

Output Format

The first and only line of output must contain the length of the correct password and its central letter.

Sample Input 0

```
4
abc
def
feg
cba
```

Sample Output 0

```
3 b
```

Submissions: 844
Max Score: 100
Difficulty: Medium

Rate This Challenge:

More

C

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
```

```c

int main(void)
{
    int n;
    scanf("%d", &n);
    char passwords[100][15];
    for (int i = 0; i < n; i++)
    {
        scanf("%s", passwords[i]);
    }
    for (int i = 0; i < n; i++)
    {
        int length = strlen(passwords[i]);
        for (int j = 0; j < n; j++)
        {
            if (strlen(passwords[j]) == length)
            {
                int k;
                for (k = 0; k < length; k++)
                {
                    if (passwords[i][k] != passwords[j][length - k - 1])
                    {
                        break;
                    }
                }
                if (k == length)
                {
                    printf("%d %c\n", length, passwords[i][length / 2]);
                    return 0;
                }
            }
        }
    }
    return 0;
}
```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code