11:23 27/02/2024 HUSTack











## **Problem: Week 4 - Hash Over Strings**

## Description

Given a string s[1...k] which is a sequence of characters taken from  $\{'a', ..., 'z'\}$ . Given a positive integer m, the hash code of s is defined by the formula:

 $H(s) = (s[1]*256^{k-1} + s[2]*256^{k-2} + ... + s[k]*256^{0}) \mod m$  (the contant integer m is a parameter)

Given a sequence of strings k1, k2, ..., kn, compute the corresponding hash codes

#### Input

Line 1: n and m (1 <= n,m <= 100000)

Line i+1 (i = 1,2,...,n): contains the string ki (the length of each string is less than or equal to 200)

#### **Output**

Each line contains the corresponding hash code of n given strings

#### **Example**

#### Input

4 1000

a

ab

abc

abcd

### Output

97

930

179

924

# Sample TestCase

Write your Source code here

C 17

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## Source code

4 int main()

2 #include <stdio.h>

1 //C

3

```
C 17
```

```
Currently, this contest problem is not open for
SUBMIT CODE
                  submissions
                                  Or
                   C 17
                                         Select file
                               SUBMIT
```

	<u> </u>	<b>Q</b> Tìm kiếm		× 5
ID	Bài tập	Trạng thái	Message	Điểm
<u>5fd9cc</u>	HASH_FUNCTION_STRING	Accept	•	100
<u>6e8081</u>	HASH_FUNCTION_STRING	Partial	•	80
<u>289a85</u>	HASH_FUNCTION_STRING	Partial	•	80
		5 hàng ▼  <		> >