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# Tama's Problem #1



Problem

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Subject: Welp:(

From: Tama

To:You

Message:

Oh man! I've got some problems here. So u know by now my girlfriend don't like being stalked by someone, and her parents often confiscated her phone and it makes her upset. Then, i found a way to make our messages encrypted without her parents know.

We will use a "secret number" that changing every day. Then, each letter of the message is replaced with a different one a secret number of place down the alphabet. Confusing? Let me explain to you. Today, our "secret number" is 3, and the message is "i love you". So, the message will change to "I oryh brx".

Please help me ):

Yours Truly,

Tama

#### Input Format

First line containing D days in integer,

Second line containing SN secret number in integer,

Third line containing M the message.

Repeat the SN secret number and M the message until D days

#### Constraints

1 ≤ D ≤ 30

 $1 \le SN \le 25$ 

M the message does not contain symbols (~!@#\$% $^{\circ}$ ,)\_+ etc) and case sensitive.

#### **Output Format**

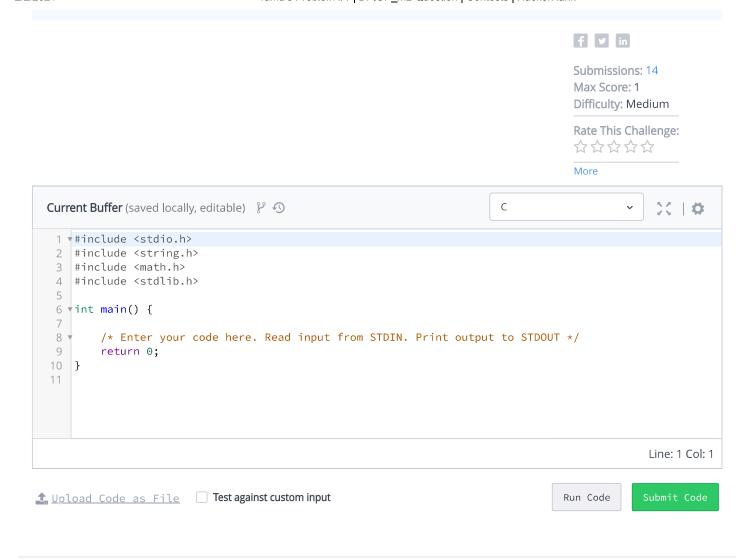
Display the encrypted message for each day

## Sample Input 0

2 3 i love you 2 help me

### Sample Output 0

l oryh brx jgnr og



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