Given an integer, n, print the following values for each integer i from 1 to n:

1. Decimal

2. Octal

3. Hexadecimal (capitalized)

4. Binary

Function Description

Complete the print_formatted function in the editor below.

print_formatted has the following parameters:

- int number: the maximum value to print

Prints

The four values must be printed on a single line in the order specified above for each i from 1 to $number$. Each value should be space-padded to match the width of the binary value of $number$ and the values should be separated by a single space.

Input Format

A single integer denoting n.

Constraints

- $1 \le n \le 99$

Sample Input

```
17
```

Sample Output

Congratulations

You solved this challenge. Would you like to challenge your friends? f 𝕏 in

Next Challenge

✓ **Test case 0**

✓ Test case 1 🔒

✓ Test case 2 🔒

✓ Test case 3 🔒

Compiler Message

Success

Input (stdin)   Download

1 2

Expected Output   Download

1 1 1 1 1

2 2 2 2 10

Python If-Else ★

You have successfully solved Python If-Else Ⓕ Share   X Post

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Congratulations

You solved this challenge. Would you like to challenge your friends? **f** **𝕏** **in**

✓ **Test case 0**

✓ Test case 1 🔒

Compiler Message

Success

Input (stdin)   Download

| 1 | 3 |
| 2 | 2 |

Expected Output   Download

1	5
2	1
3	6

Problem

In this task, we would like for you to appreciate the usefulness of the groupby() function of itertools . To read more about this function, Check this out .

You are given a string S. Suppose a character 'c' occurs consecutively X times in the string. Replace these consecutive occurrences of the character 'c' with (X, c) in the string.

For a better understanding of the problem, check the explanation.

Input Format

A single line of input consisting of the string S.

Output Format

A single line of output consisting of the modified string.

Constraints

All the characters of S denote integers between 0 and 9.

$1 \le | S | \le 10^4$

Sample Input

```
1222311
```

Sample Output

```
(1, 1) (3, 2) (1, 3) (2, 1)
```

Explanation

First, the character **1** occurs only once. It is replaced by $(1, 1)$. Then the character **2**

Congratulations

You solved this challenge. Would you like to challenge your friends? f ⅴ in

Next Challenge

✓ **Test case 0**

✓ Test case 1 🔒

✓ Test case 2 🔒

✓ Test case 3 🔒

✓ Test case 4 🔒

✓ Test case 5 🔒

✓ Test case 6 🔒

Compiler Message

Success

Input (stdin)   Download

```
1    1222311
```

Expected Output   Download

```
1    (1, 1) (3, 2) (1, 3) (2, 1)
```

Kevin and Stuart want to play the **'The Minion Game'**.

Game Rules

Both players are given the same string, S.

Both players have to make substrings using the letters of the string S.

Stuart has to make words starting with consonants.

Kevin has to make words starting with vowels.

The game ends when both players have made all possible substrings.

Scoring

A player gets +1 point for each occurrence of the substring in the string S.

For Example:

String S = BANANA

Kevin's vowel beginning word = ANA

Here, ANA occurs twice in BANANA. Hence, Kevin will get 2 Points.

For better understanding, see the image below:

	STUART			KEVIN	
WORDS	SCORE		WORDS	SCORE	
B	1		A	3	
N	2		AN	2	
BA	1		ANA	2	
NA	2		ANAN	1	
BAN	1		ANANA	1	
NAN					

Congratulations

You solved this challenge. Would you like to challenge your friends? f 𝕏 in

[NextChallenge]

⊘ **Test case 0**	
⊘ Test case 1	🔒
⊘ Test case 2	🔒
⊘ Test case 3	🔒
⊘ Test case 4	🔒
⊘ Test case 5	🔒
⊘ Test case 6	🔒

Compiler Message

Success

Input (stdin)   Download

1   **BANANA**

Expected Output   Download

1   **Stuart 12**

Given a year, determine whether it is a leap year. If it is a leap year, return the Boolean True, otherwise return False.

Note that the code stub provided reads from STDIN and passes arguments to the is_leap function. It is only necessary to complete the is_leap function.

Input Format

Read $year$, the year to test.

Constraints

$1900 \leq year \leq 10^5$

Output Format

The function must return a Boolean value (True/False). Output is handled by the provided code stub.

Sample Input 0

1990

Sample Output 0

False

Explanation 0

1990 is not a multiple of 4 hence it's not a leap year.

Congratulations

You solved this challenge. Would you like to challenge your friends? **f** **🐦** **in**

Next Challenge

✓ **Test case 0** 🔒   Compiler Message

✓ Test case 1 🔒   Success

✓ Test case 2 🔒

✓ Test case 3 🔒   🔒 Hidden Test Case

✓ Test case 4   Unlock this testcase for 5 hackos.

✓ Test case 5 🔒   **Unlock**

Congratulations

You solved this challenge. Would you like to challenge your friends? [f] [t] [in]

Next Challenge

- ⊘ **Test case 0**
- ⊘ Test case 1 🔒
- ⊘ Test case 2 🔒
- ⊘ Test case 3 🔒
- ⊘ Test case 4 🔒
- ⊘ Test case 5 🔒
- ⊘ Test case 6 🔒

Compiler Message

```
Success
```

Input (stdin)   Download

```
1  4
2  bcdef
3  abcdefg
4  bcde
5  bcdef
```

Expected Output   Download

```
1  3
2  2 1 1
```

You have earned 40.00 points.

Problem

The itertools module standardizes a core set of fast, memory efficient tools that are useful by themselves or in combination. Together, they form an iterator algebra making it possible to construct specialized tools succinctly and efficiently in pure Python.

To read more about the functions in this module, check out their documentation here.

You are given a list of N lowercase English letters. For a given integer K, you can select any K indices (assume 1-based indexing) with a uniform probability from the list.

Find the probability that at least one of the K indices selected will contain the letter: 'a'.

Input Format

The input consists of three lines. The first line contains the integer N, denoting the length of the list. The next line consists of N space-separated lowercase English letters, denoting the elements of the list.

The third and the last line of input contains the integer K, denoting the number of indices to be selected.

Output Format

Output a single line consisting of the probability that at least one of the K indices selected contains the letter:'a'.

Note: The answer must be correct up to 3 decimal places.

Constraints

$1 \leq N \leq 10$

$1 \leq K \leq N$

All the letters in the list are lowercase English letters.

Sample Input

Congratulations

You solved this challenge. Would you like to challenge your friends?   [f] [y] [in]   Next Challenge

⊘ Test case 0	Compiler Message
⊘ Test case 1 🔒	Success
⊘ Test case 2 🔒	
⊘ Test case 3 🔒	Input (stdin) Download
⊘ Test case 4 🔒	1 4
⊘ Test case 5 🔒	2 a a c d
⊘ Test case 6 🔒	3 2

Expected Output   Download

1 0.833333333333

Congratulations

You solved this challenge. Would you like to challenge your friends?

✓ **Test case 0**

✓ Test case 1 🔒

Compiler Message

Success

Input (stdin)   Download

```
1   2
2   1 2
```

Expected Output   Download

```
1   3713081631934410656
```

The provided code stub will read in a dictionary containing key/value pairs of name:
[marks] for a list of students. Print the average of the marks array for the student name
provided, showing 2 places after the decimal.

Example

marks key:value pairs are

'alpha': [20, 30, 40]

'beta': [30, 50, 70]

query_name = 'beta'

The **query_name** is 'beta'. beta's average score is $(30 + 50 + 70)/3 = 50.0$.

Input Format

The first line contains the integer n, the number of students' records. The next n lines
contain the names and marks obtained by a student, each value separated by a space.
The final line contains **query_name**, the name of a student to query.

Constraints

- $2 \leq n \leq 10$
- $0 \leq marks[i] \leq 100$
- length of marks arrays $= 3$

Output Format

Print one line: The average of the marks obtained by the particular student correct to 2
decimal places.

Sample Input 0

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

✓ Test case 0	Compiler Message
✓ Test case 1	Success
✓ Test case 2 🔒	
✓ Test case 3 🔒	Input (stdin) Download
✓ Test case 4 🔒	1 3
✓ Test case 5 🔒	2 Krishna 67 68 69
✓ Test case 6 🔒	3 Arjun 70 98 63
	4 Malika 52 56 60
	5 Malika

Expected Output   Download

1 56.00