## Problem A Name Generation

Ingrid is the founder and CEO of bicycle retailer BIKEA. The company sells bicycles for customers to assemble themselves.

BIKEA has N different bicycles to offer. Ingrid wants to give each of them a human-readable name, to make it easy to remember. But doing this by hand is a very time consuming task.



You are given the number N, and your task is to generate N different names. To make the names readable, they must satisfy the following:

- 1. Each name has length between 3 and 20, and only consists of lowercase English letters.
- 2. Three consecutive letters of a name cannot all be vowels or consonants. Here we consider a, e, i, o, u vowels, while the remaining 21 letters are consonants.

For example, hello, abc, and lkab are all valid names, whereas ingrid, bo and louise are invalid.

## Input

The input consists of one integer N ( $1 \le N \le 30000$ ), the number of names to generate.

## Output

Print N lines, each of them containing a name. It can be proven that it is possible to generate N different names.

Sam	ole I	Inp	ut '	1

## **Sample Output 1**

3	abdullah
	bjorn
	nils