Goal

A friend of yours plays on a Rugby team. He throws the ball in the when there is touch. During a touch, the thrower must communicate to other players how high he will send the ball with a code that the opponents must not be able to decode. For each height, there are several codes. The launcher then shouts several words, only one of which corresponds to a code, and the whole team can thus determine the chosen height.

Your friend presents you with a list of words that the players have proposed (a word may appear several times in his list) and asks you to find a method to extract "magic" words that will be used as code. He will associate them with heights afterwards. You have decided that a magic word would have the following characteristics:

- It must contain between 5 and 7 letters.
- It must begin with two letters of the alphabet that follow in alphabetical order.
- It must end with a vowel (*a*, *e*, *i*, *o*, *u*, or y (y is a vowel in French)).

You need to determine how many **different** magic words are in his list.

Data

Input

Row *1*: an integer **N** between *10* and *1000* corresponding to the number of words in the list.
Rows *2* to **N** + *1*: a string containing between 2 and 20 lower case characters corresponding to a word.

Output

An integer corresponding to the number of different magic words contained in the list.

You can download sample input and output data files to work locally by clicking on the link at the bottom of the French version of the question

Téléchargez des fichiers d'exemple ainsi qu'un modèle de code pour travailler localement.