



Problem 7

It's All Greek To Me

6 points

JAVA: program name must be prob07.class

C/C++ program name must be: prob07.exe

Task Description

As computer AI capabilities increase, humans will interact with computers more and more through natural (human) language, both verbal and written. Constructing this technology requires the creation of algorithms that can understand and generate the syntax of natural language.

Write a program to generate contractions of Greek root-suffix pairs. Vowel contractions are formed using the (abbreviated) rules in the table below. For your convenience, Greek letters will be transliterated using the Roman alphabet.

		<i>suffix begins with...</i>						
		a	e	i	y	o	ou	w
<i>root ending...</i>	a	a	a	ai	a	w	w	w
	e	y	ei	ei	y	ou	ou	w
	o	w	ou	oi	w	ou	ou	w

The root word will end in a, e, or o, corresponding to the vowels in the leftmost column. The suffix will begin with a, e, i, y, o, ou, or w, corresponding to the vowels in the topmost row. The resulting contraction is located at the intersection of the two vowels. For example, a+o=w.

Program Input

Each line of the input file contains a root word and suffix separated by a dash. The last line of the file is the word END.

```
katathe-amenos  
eggua-omen  
marture-omeny  
END
```

Program Output

The program must print the contractions of the root-suffix pairs.

```
katathymenos  
eggummen  
marturoumeny
```