

01.Encrypt, Sort and Print Array

Write a program that reads a **sequence of strings** from the console. Encrypt every string by summing:

- The code of **each vowel multiplied by the string length**
- The code of **each consonant divided by the string length**

Sort the **number** sequence in ascending order and print it on the console.

On first line, you will always receive the number of strings you have to read.

Examples

Input	Output	Comments
4 Peter Maria Katya Todor	1032 1071 1168 1532	Peter = 1071 Maria = 1532 Katya = 1032 Todor = 1168
3 Sofia London Washington	1396 1601 3202	Sofia = 1601 London = 1396 Washington = 3202