

Secret messages

Assignment Description

The Vigenère cipher is a technique for encrypting texts using a code word and simple alphabet shifts. Write a function **encode** and **decode** that given a key and a message are able to either encode or decode your message.

You will be given the instruction of whether you must encode or decode as a part of your input.

Input-Output specification

A single long string comprised of 3 parts, a word describing whether you must encode or decode, a key and the message. All separated by a space. Example: “encode pvw programmeren”

Example

Input 1	Input 2	Input 3	Output
“encode”	“pvw”	“programmeren”	“emkvmwbhagzj”
“encode”	“eenlangleutelwoord”	“kort”	“osee”
“decode”	“wiskunde”	“cwwnargewv”	“goedgedaan”

Further Reading

Python documentation: [ord\(\)](#) and [chr\(\)](#)

Wikipedia: [Vigenere Cipher](#)

Notes

You must write the algorithm for encoding and decoding yourself and are therefore **not allowed** to use any existing function that applies the vigenere cipher for you.