

CONCATENATE STRINGS

Write a program to implement the following requirement:

The program will read from standard input two things

- a string `str1` on the first line of `stdin` (this string may be an empty string)
- a string `str2` on the second line of `stdin` (this string may be an empty string)

Note that `stdin` does not end with `'\n'`.

The program will output a string that is the concatenation of string `str1` and string `str2` such that any lower-case alphabet character (a-z) will be converted to upper-case and any upper-case alphabet character (A-Z) will be converted into lower-case.

Note that `stdout` does not end with `'\n'`.

You cannot use any existing function from any library to do this concatenation.

The maximum length of each input string is 100 characters

SAMPLE INPUT

```
this is string one
This is string two
```

SAMPLE OUTPUT

```
THIS IS STRING ONEtHIS IS STRING TWO
```