
Make uppercase or lowercase**X62138_en**

Write a function called `make_uppercase_lowercase` that receives as parameter a string `T` with exactly 26 characters U or L. Each position of the string `T[0], T[1], T[2], ..., T[25]` corresponds to each one of the 26 English letters `a, b, c, ..., z`, and indicates whether we always want such letter to be uppercase (with a U), or lowercase (with an L). The function `make_uppercase_lowercase` reads the whole input, and writes each alphabetic letter read to the output by making it uppercase or lowercase, depending on the string `T`. The rest of the symbols, like punctuation marks, spaces and line breaks, are ignored. A line break is also printed at the end of the output.

For example, if the string `T` contains:

```
LULLUUULUUULLLUULLUUUUULUUL
```

in particular, it says that all `a` must be made lowercase, all `b` must be made uppercase, all `d` must be made lowercase, all `k` must be made uppercase, and all `r` must be made lowercase. Thus, with the input:

```
AbRAkAdaBRA
```

it should write:

```
aBraKadaBra
```

You must use the following C++ code, completing the missing part. Substitute the ellipsis (...) in the procedure `make_uppercase_lowercase` by your implementation of the procedure; don't change anything else.

```
#include <iostream>
#include <string>
using namespace std;

// add here function or procedure definitions if needed

// see the problem statement
void make_uppercase_lowercase(const string& T) {
    ...
}

int main() {
    string T;
    cin >> T;
    make_uppercase_lowercase(T);
}
```

Your program must include `iostream` and `string` and no other library, e.g., `vector`. Your implementation of the procedure `make_uppercase_lowercase` can use functions and procedures that you have defined. It is highly advisable to do so.

Exam score: 2.5 Automatic part: 100%

Input

The input starts with a string T of length 26, containing only characters U and L. Next, there is a sequence of characters, which might include lowercase and uppercase letters, digits, symbols, spaces, etc.

Output

The output contains the original input (after T) ignoring all symbols except the alphabetic ones, which are made uppercase or lowercase depending on whether the corresponding position in T has a U or an L.

Sample input 1

```
LULLUUULUUULLLUULLUUUUULUUL
AbRAkAdaBRA
```

Sample output 1

```
aBraKadaBra
```

Sample input 2

```
LLLLUUULLLLLUULLUUUULLULLUU
!?-+
abcdefghijklmnopqrstuvwxyz
====
What ever it is, we all have it.
```

Sample output 2

```
abcDEFGHijklMnoPQRStuVwxYZwhatEVERitiSwEaLLhaVEit
```

Problem information

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