

## 3245 Partial Overlapping

Imagine a rectangular grid of letters of size  $R \times C$ . As you can see in the adjacent figure, two exact copies of this grid may be *partially* overlapped just by sliding one of the copies horizontally and/or vertically.

Write a program that prints the resulting shape of such overlapping grids.

A	B	C	D	E	F
G	H	A	B	C	D
I	J	G	H	A	B
K	L	I	J	G	H

### Input

Your program will be tested on one or more test cases. Each test case is described using  $R + 1$  lines. The first line contains two positive integers:  $R$  is the grid's number of rows and  $C$  is the number of columns. The data in the grid is specified on the following  $R$  lines. Each line represents a row and is made of  $C$  case-sensitive alphabetic characters. Note that  $R, C < 1000$ .

The end of test cases is specified using a dummy test case where either  $R$  or  $C$  is zero.

A	B	C	D	E	F		
G	H	A	B	C	D	E	F
I	J	G	H	A	B	C	D
K	L	I	J	G	H	A	B
		K	L	I	J	G	H

### Output

For each test case, print the shape of the overlapped grids. If there is no overlapping, print the grid itself. If there is more than one overlapping possibility, print the arrangement with the largest number of shared letters. If there is more than one arrangement with the largest number of shared letters, print any one of them.

After the output of each test case, print a line made of  $x$  '+' characters where  $x$  is equal to the number of columns used to print the output of that test case.

### Sample Input

```
4 6
ABCDEF
GHABCD
IJGHAB
KLIJGH
2 2
ab
AB
3 4
abpq
pqrs
rsab
0 0
```

**Sample Output**

```
ABCDEF
GHABCDEF
IJGHABCD
KLIJGHAB
  KLIJGH
+++++++
ab
AB
++
  abpq
abpqrs
pqrsab
rsab
++++++
```