

# Programming assignment 10

## Longest Common Subsequence

### Input (Standard input)

In the first line, sequence A is given and in the second line, sequence B is given.

Both sequences have at most 500 characters.

\*You must lexicographically sort input sequences in increasing order and set bigger one to x-axis and smaller one to y-axis.

### Output (Standard output)

Print the longest common subsequence.

When the number in the left entry is the same as the number in the top entry, you must select the top entry.

### [Example]

Input	Output
abccdfecd abcdef	abcde

		A	b	c	c	d	f	e	c	d
	0	0	0	0	0	0	0	0	0	0
a	0	1	1	1	1	1	1	1	1	1
b	0	1	2	2	2	2	2	2	2	2
c	0	1	2	3	3	3	3	3	3	3
d	0	1	2	3	3	4	4	4	4	4
e	0	1	2	3	3	4	4	5	5	5
f	0	1	2	3	3	4	5	5	5	5

### Description

1. File name must be Longest\_common\_sequence.cpp
2. Make a comment of your student ID, name and class in the first line of the source code.  
ex) 2014601028\_Honggildong\_A
3. Please keep the source code that you have submitted for some unexpected accident.