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The Virtual Learning Environment for Computer Programming

Intervals (1) P51126_en

Write a program that, given two intervals, computes the interval corresponding to their intersection, or tells that it is empty.

Input

Input consists of four integer numbers a_1 , b_1 , a_2 , b_2 that represent the intervals $[a_1, b_1]$ and $[a_2, b_2]$. Assume $a_1 \le b_1$ and $a_2 \le b_2$.

Output

Print "[]" if the intersection is empty, or "[x, y]" if this is their non-empty intersection.

[]

Sample input 1		Sample output 1 [20,30]
20 30	10 40	[20,30]
Sample input 2		Sample output 2 [10,20]
10 20	10 20	[10,20]
Sample input 3		Sample output 3 [20,20]
20 30	10 20	[20,20]
Sample input 4		Sample output 4

Problem information

10 20 30 40

Author : Salvador Roura Translator : Carlos Molina Generation : 2013-09-02 15:28:14

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