**Begin:** 2022-02-12

12:00 UTC-3

TEP 2021.02 - Lista #03

**End:** 2022-02-27

12:00 UTC-3

**Elapsed:** 251:18:55 Running Remaining:

108:41:04

Overview

Problem

Status

Rank (251:18:40)

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**Time limit** 

2000 ms

**Memory limit** 

1048576 kB

# **B** - Product Max

#### **Problem Statement**

Given are integers a, b, c and d. If x and y are integers and  $a \le x \le b$  and  $c \le y \le d$  hold, what is the maximum possible value of  $x \times y$ ?

#### **Constraints**

- $-10^9 \le a \le b \le 10^9$
- $-10^9 \le c \le d \le 10^9$
- All values in input are integers.

### Input

Input is given from Standard Input in the following format:

 $a\,b\,c\,d$ 

## Output

Print the answer.

# Sample 1

Input	copy	Output	сору
1 2 1 1		2	

If x=1 and y=1 then  $x\times y=1$ . If x=2 and y=1 then  $x\times y=2$ . Therefore, the answer is 2.

# Sample 2

	Input	сору	Output	сору
3 5 -4 -2			-6	

The answer can be negative.

## Sample 3

Input	copy	Output	сору
-1000000000 0 -1000000000 0		1000000000000000000	



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