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## C. K-th Sum

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

There are two arrays a and b, each of which consists of n integers. For each pair of numbers  $(i,j):1\leq i,j\leq n$ , write out the sum  $a_i+b_j$ . Find in the resulting set of sums the k-th in ascending order.

## Input

The first line contains integers n and k ( $1 \le n \le 10^5$ ,  $1 \le k \le n^2$ ). The second line contains the elements of array a, the third line contains the elements of array b. All array elements are positive integers, no more than  $10^9$ .

## Output

Print one number, the required k-th sum.

## Example

input	Сору
5 10 4 2 6 4 8 7 3 1 9 5	
output	Сору
9	

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