Swapping Two Numbers

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Write a program which reads two integers x and y, and prints them in ascending order.

Input

The input consists of multiple datasets. Each dataset consists of two integers x and y separated by a single space.

The input ends with two 0 (when both x and y are zero). Your program should not process for these terminal symbols.

Output

For each dataset, print x and y in ascending order in a line. Put a single space between x and y.

Constraints

- $0 \leq x, y \leq 10000$
- the number of datasets ≤ 3000

Sample Input

```
3 2
2 2
5 3
0 0
```

Sample Output

```
2 3
2 2
3 5
```

Source: https://onlinejudge.u-aizu.ac.jp/problems/ITP1_3_C