TP\_CSF\_Loops\_NestedLoops

Reads two ints *n*, *m* and writes out all the pairs of natural numbers *a*, *b* such that *a <= n* and *b <= m*.

Input

There is a single int *n* on the first line.

There is a single int *m* on the second line.

Output

There are *(n + 1)(m + 1)* lines.

Each line contains a different pair of natural numbers *a*, *b* where *a <= n* and *b <= m*. *a* and *b* are separated by a single space.

Examples

|  |  |
| --- | --- |
| Input | Output |
| 1  2 | 0 0  0 1  0 2  1 0  1 1  1 2 |
| 0  2 | 0 0  0 1  0 2 |
| 2  2 | 2  2  0 0  0 1  0 2  1 0  1 1  1 2  2 0  2 1  2 2 |