

Combination and Permutation

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 256 megabytes

Given two numbers A and B . Print **NCR** and **NPR** of A and B .

Note:

- **NCR** is the Combination.
- **NPR** is the Permutation.

Input

Only one line contains two numbers A and B ($0 \leq A, B \leq 19$).

It's guaranteed that $A \geq B$.

Output

Print **NCR** and **NPR** of A and B separated by a space.

Examples

| standard input | standard output |
|----------------|-----------------|
| 5 3 | 10 60 |
| 6 2 | 15 30 |

Note

For more information visit:

<https://www.mathsisfun.com/combinatorics/combinations-permutations.html>.