

Combinations

By given **N** and **K**, print all K-combinations of N elements.

Input

- Read from the standard input
- From the first line, read **N** and **K**, separated by a single space

Output

- Print on the standard output
- Print all the K-combinations of the numbers between 1 and N
 - Sorted alphabetically as numbers (i.e. 2 is before 11)

Sample tests

Input

```
3 2
```

Output

```
1 2
1 3
2 3
```

Input

```
4 3
```

Output

```
1 2 3
1 2 4
1 3 4
2 3 4
```

Input

1 1

Output

1