

# N Choose K

## Objective

To practice on writing **Recursive functions**.

## Problem Description

Find out all possible combinations of **choosing K letters out of an input string of N distinct letters**. The input consists of an integer, **K** and a string of **N** distinct lowercase letters listed in alphabetical order.

Assume that  $1 \leq N \leq 16$  and  $1 \leq K \leq N$ . Print out all distinct letter combinations in alphabetical order: every combination can be represented as a string consisting of **K** letters listed in alphabetical order.

## Input

The input consists of an integer **K** and **N** distinct letters listed in alphabetical order.

## Output

Output all distinct letter combinations in alphabetical order.

## Sample Input 1

```
2 abcd
```

## Sample Output 1

```
ab
ac
ad
bc
bd
cd
```

## Sample Input 2

```
4 abcd
```

## Sample Output 2

```
abcd
```

## Program Submission

Submit your solution as a file named Lab10g<LabGroupNo><MatricNo>.zip into the right folder.