

# Sort String

Input file:            **standard input**  
Output file:        **standard output**  
Time limit:         7 seconds  
Memory limit:      4 megabytes

Given a number  $N$  and a string  $S$  of size  $N$ . Print  $S$  after sorting it.

**Note** : don't use built-in function and it's recommended to not solve this problem with python language.

## Input

The first line contains a number  $N$  ( $1 \leq N \leq 10^7$ ) size of string  $S$ .

The second line contains a string  $S$  consists of lowercase English letters.

## Output

Print  $S$  after sorting it.

## Examples

standard input	standard output
4 deab	abde
5 egypt	egpty