# Problem 4 – Weird Combinations

## You are given a sequence of 5 distinct numbers and/or letters. Find all possible combinations of 5 symbols containing the given numbers/letters. Then you will be given a number n. You have to find the n-th number in the natural order of all combinations. Example: sequence = "a1bc2", n = 5, combinations: "aaaaa", "aaaa1", "aaaab", "aaaac", "aaaa2", "aaa1a", "aaa1b"… "2222b", "2222c", "22222". 5th element = aaa1a (take notice that the first element in the order is counted as 0). If the n-th number doesn't exist in print "No".

## Input

Input data is read from the console.

* The sequence of **letters/numbers** stays at the first line.
* The number **n** of stays at the second line.

The input data will always be valid and in the format described. There is no need to check it explicitly.

## Output

The output data must be printed on the console.

* Print the n-th number in the natural order of all combinations.

## Constraints

* **N** will be an integer number between **0** and **5000** and
* Time limit: 0.25 seconds. Allowed memory: 16 MB.

## Examples

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| a1bc2  5 | aaa1a | f5182  15 | fff8f |  | 12345  250 | 13111 |  | 12345  6000 | No |