B. Two-gram

time limit per test
1 second
memory limit per test
256 megabytes
input
standard input
output
standard output

Two-gram is an ordered pair (i.e. string of length two) of capital Latin letters. For example, "AZ", "AA", "ZA" — three distinct two-grams.

You are given a string s consisting of n capital Latin letters. Your task is to find **any** two-gram contained in the given string **as a substring** (i.e. two consecutive characters of the string) maximal number of times. For example, for string s = "BBAABBBA" the answer is two-gram "BB", which contained in s three times. In other words, find any most frequent two-gram.

Note that occurrences of the two-gram can overlap with each other.

Input

The first line of the input contains integer number n ($2 \le n \le 100$) — the length of string s. The second line of the input contains the string s consisting of n capital Latin letters.

Output

Print the only line containing exactly two capital Latin letters — **any** two-gram contained in the given string s **as a substring** (i.e. two consecutive characters of the string) maximal number of times.

Examples

input

Copy

```
7
ABACABA
```

output

Copy

```
AB
```

input

Copy

```
5
ZZZAA
```

output

Copy

```
ZZ
```

Note

In the first example "BA" is also valid answer.

In the second example the only two-gram "ZZ" can be printed because it contained in the string "ZZZAA" two times.