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A. One-dimensional Japanese Crossword

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

Recently Adaltik discovered japanese crosswords. Japanese crossword is a picture, represented as a table sized $a \times b$ squares, and each square is colored white or black. There are integers to the left of the rows and to the top of the columns, encrypting the corresponding row or column. The number of integers represents how many groups of black squares there are in corresponding row or column, and the integers themselves represents the number of consecutive black squares in corresponding group (you can find more detailed explanation in Wikipedia https://en.wikipedia.org/wiki/Japanese_crossword).

Adaltik decided that the general case of japanese crossword is too complicated and drew a row consisting of n squares (e.g. japanese crossword sized $1 \times n$), which he wants to encrypt in the same way as in japanese crossword.

The example of encrypting of a single row of japanese crossword.

Help Adaltik find the numbers encrypting the row he drew.

Input

The first line of the input contains a single integer n ($1 \le n \le 100$) — the length of the row. The second line of the input contains a single string consisting of n characters 'B' or 'W', ('B' corresponds to black square, 'W' — to white square in the row that Adaltik drew).

Output

The first line should contain a single integer k — the number of integers encrypting the row, e.g. the number of groups of black squares in the row.

The second line should contain k integers, encrypting the row, e.g. corresponding to sizes of groups of consecutive black squares in the order from left to right.

Examples

input
3 BBW

output
1 2

input
5 BWBWB

output
3 1 1 1

Codeforces Round #374 (Div. 2)

Finished

Practice

⭐

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest]

→ Submit?

Language: GNU G++ 5.1.0 ▼

Choose file: [Choose File] No file chosen

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

[Submit]

→ Last submissions

Submission	Time	Verdict
21124653	Oct/02/2016 23:41	Accepted

→ Problem tags

implementation

No tag edit access

→ Contest materials

- Announcement ✕
- Tutorial ✕

input

```
4
WWWW
```

output

```
0
```

input

```
4
BBBB
```

output

```
1
4
```

input

```
13
WBBBBWWBWBBBW
```

output

```
3
4 1 3
```

Note

The last sample case correspond to the picture in the statement.