

P - Marvelous Mazes

Your mission, if you decide to accept it, is to create a maze drawing program. A maze will consist of the alphabetic characters A-Z, * (asterisk), and spaces.

Input

Input will contain multiple maze descriptions, each separated by a blank line. Each maze description consists of strings of characters that describe a maze your program must interpret in order to draw a maze. Each row of the description is described by a series of numbers and characters, where the numbers before a character tell how many times that character is to be used. If there are multiple digits in a number before a character, the number of times to repeat the character is the sum of the digits before that character. The lowercase letter "b" represents a space in the final maze. Each row in the maze description is separated from other rows by an exclamation point (!) or by an end of line. The maximum length of a row is 132 characters. No maze will contain more than 100 rows.

Output

Print each maze as a sequence of rows, using the characters and counts given in the input. Leave a single blank line between mazes, but no blank lines at the end.

Sample Input

```
1T1b5T!1T2b1T1b2T!1T1b1T2b2T!1T3b1T1b1T!3T3b1T!1T3b1T1b1T!5T1*1T
```

```
2x3b1x
```

```
4x1b1x
```

Sample Output

```
T TTTTT
```

```
T  T TT
```

```
T T  TT
```

```
T    T T
```

```
TTT   T
```

```
T    T T
```

```
TTTTT*T
```

```
xx    x
```

```
xxxx  x
```