Buying shares   X39187_en

You have c coins, and you must make n stock transactions. Each transaction involves buying or selling a share. All shares are worth one coin each. You can only buy if you have a coin, and can only sell if you have a share.

Given n and c, print all possible sequences of operations.

Input

Input consists of n and c. Suppose $1 \leq c \leq n \leq 16$.

Output

Print in alphabetical order all possible sequences of n operations when we start with c coins. Use 'b' to buy and 's' to sell.

Sample input 1

```
4 1
```

Sample output 1

```
bsbs
```

Sample input 2

```
7 3
```

Sample output 2

```
bbbsbsb
bbbsbss
bbbssbb
bbbssbs
bbbsssb
bbsbbsb
bbsbbss
bbsbsbb
bbsbsbs
bbsbssb
bbssbbb
bbssbbs
bbssbsb
bsbbbsb
bsbbbss
bsbbsbb
bsbbsbs
bsbbssb
bsbsbbb
bsbsbbs
bsbsbsb
```

Problem information

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