
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 input 2

7 3

Sample output 1

bsbs

Sample output 2

```
bbbsbsb
bbbsbss
bbbsabb
bbbsbbs
bbbsabb
bsbbsb
bsbbbs
bsbsabb
bsbsbbs
bsbsabb
bsbsabb
bsbsabb
bsbsabb
bsbsabb
bsbsabb
bsbsabb
bsbsabb
bsbsabb
bsbsabb
bsbsabb
bsbsabb
bsbsabb
```

Problem information

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