
Words with x, y and z**X20680_en**

In this problem we will consider words of size n , made from letters 'x', 'y' and 'z', and without more than c equal consecutive letters. Write a program that writes all words that satisfy these constraints.

Input

Input consists of several cases, each with an n between 1 and 15 and a c between 1 and n .

Output

For each case, write in alphabetical order all words of length n made from letters 'x', 'y' and 'z' that do not contain $c + 1$ equal consecutive letters. Write a line with 20 hyphens at the end of each case.

Sample input

```
1 1
2 2
3 1
```

Sample output

```
x
y
z
-----
xx
xy
xz
yx
yy
yz
zx
zy
zz
-----
xyx
xyz
xzx
xzy
yxy
yxz
yzx
yzy
zxy
zxz
zyx
zyz
-----
```

Problem information

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