时间限制：C/C++ 1秒，其他语言2秒
空间限制：C/C++ 262144K，其他语言524288K
Special Judge, 64bit IO Format: %lld

题目描述

Let $LCS(s_1, s_2)$ denote the length of the longest common subsequence (not necessary continuity) of string s_1 and string s_2.

Now give you four integers a, b, c, n, you need to find three lowercase character strings s_1, s_2, s_3 satisfy that $|s_1| = |s_2| = |s_3| = n$

and $LCS(s_1, s_2) = a, LCS(s_2, s_3) = b, LCS(s_1, s_3) = c$.

输入描述:

> The first line has four integers a, b, c, n.
>
> $0 \le a, b, c \le n$.
>
> $1 \le n \le 1000$.

输出描述:

> If there is no solution, output "NO" (without double quotation marks).
>
> If there exists solutions, you only need to output any one: output three lines, the i-th line has one strings s_i.

示例1

输入

```
1 2 3 4
```

输出

```
aqcc
abpp
abcc
```

示例2

输入

```
1 2 3 3
```

输出

```
NO
```