# L-Tiling

## Description



You have a  $2^n \times 2^n$  grid, but unfortunately one cell of them is broken.



#### Input

An integer n.

## Output

Please output a shortest list of movement in the above format.

#### **Technical Specifications**

• It is guaranteed that  $1 \le n \le 15$ .

## Sample Input 1

1

#### Sample Output 1

Move disk 1 from 1 to 3.

## Sample Input 2

2

## Sample Output 2

```
Move disk 1 from 1 to 2.
Move disk 2 from 1 to 3.
Move disk 1 from 1 to 2.
```