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## Knight jumps

P98620\_en

Vintè Concurs de Programació de la UPC - Final (2022-09-21)

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Given a board with three columns and  $n$  rows, find a way for a chess knight to visit exactly  $3n - 2$  cells, starting at any cell, and never repeating any cell nor going outside the board.

### Input

Input consists of several cases, each with an  $n$  between 3 and  $10^5$ .

### Output

Print one line for each case, with any solution. Columns are labelled with 'a', 'b' and 'c' in this order, while rows are numbered from 1 to  $n$ . Follow strictly the format of the sample output.

### Sample input

```
5
3
```

### Sample output

```
c5->a4->c3->b1->a3->c4->a5->b3->c1->a2->b4->c2->a1
a1->c2->a3->b1->c3->a2->c1
```

### Problem information

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