



Alphabet Rangoli ★

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You are given an integer, **N**. Your task is to print an alphabet rangoli of size **N**. (Rangoli is a form of Indian folk art based on creation of patterns.)

Different sizes of alphabet rangoli are shown below:

#size 3

```
---c---
--c-b-c-
c-b-a-b-c
--c-b-c-
---c---
```

#size 5

```
-----e-----
----e-d-e----
---e-d-c-d-e---
--e-d-c-b-c-d-e-
e-d-c-b-a-b-c-d-e
--e-d-c-b-c-d-e-
---e-d-c-d-e---
----e-d-e----
-----e-----
```

#size 10

```
-----j-----
-----j-i-j-----
-----j-i-h-i-j-----
-----j-i-h-g-h-i-j-----
-----j-i-h-g-f-g-h-i-j-----
-----j-i-h-g-f-e-f-g-h-i-j-----
-----j-i-h-g-f-e-d-e-f-g-h-i-j-----
----j-i-h-g-f-e-d-c-d-e-f-g-h-i-j---
--j-i-h-g-f-e-d-c-b-c-d-e-f-g-h-i-j-
j-i-h-g-f-e-d-c-b-a-b-c-d-e-f-g-h-i-j
--j-i-h-g-f-e-d-c-b-c-d-e-f-g-h-i-j-
---j-i-h-g-f-e-d-c-d-e-f-g-h-i-j---
----j-i-h-g-f-e-d-e-f-g-h-i-j-----
-----j-i-h-g-f-e-f-g-h-i-j-----
-----j-i-h-g-f-g-h-i-j-----
-----j-i-h-g-h-i-j-----
-----j-i-h-i-j-----
-----j-i-j-----
-----j-----
```

The center of the rangoli has the first alphabet letter a, and the boundary has the **Nth** alphabet letter (in alphabetical order).

Function Description

Complete the rangoli function in the editor below.

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rangoli has the following parameters:

- `int size`: the size of the rangoli

Returns

- `string`: a single string made up of each of the lines of the rangoli separated by a newline character (`\n`)

Input Format

Only one line of input containing ***size***, the size of the rangoli.

Constraints

$0 < \text{size} < 27$

Sample Input

5

Sample Output

```
-----e-----
-----e-d-e-----
----e-d-c-d-e----
--e-d-c-b-c-d-e--
e-d-c-b-a-b-c-d-e
--e-d-c-b-c-d-e--
----e-d-c-d-e----
-----e-d-e-----
-----e-----
```

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Language

Pypy 3



```
1 def print_rangoli(size):
2     # your code goes here
3     n = ord("a")
4     alphabet = [chr(n + i) for i in range(size)]
5     length = ((size*2)-1)*2-1
6     lst = list(range(size-1,-1,-1)) + list(range(1,size))
7     for i in lst:
8         right_side = alphabet[i:]
9         left_side = right_side[::-1][:-1]
10        line = left_side + right_side
11        line = "-".join(line).center(length,"-")
12        print(line)
13
14 if __name__ == '__main__':
15     n = int(input())
16     print_rangoli(n)
```

EMACS

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