

## A. Pages

time limit per test: 1 second  
 memory limit per test: 256 megabytes  
 input: standard input  
 output: standard output

User ainta is making a web site. This time he is going to make a navigation of the pages. In his site, there are  $n$  pages numbered by integers from 1 to  $n$ . Assume that somebody is on the  $p$ -th page now. The navigation will look like this:

$\ll p - k \ p - k + 1 \ \dots \ p - 1 \ (p) \ p + 1 \ \dots \ p + k - 1 \ p + k \gg$

When someone clicks the button " $\ll$ " he is redirected to page 1, and when someone clicks the button " $\gg$ " he is redirected to page  $n$ . Of course if someone clicks on a number, he is redirected to the corresponding page.

There are some conditions in the navigation:

- If page 1 is in the navigation, the button " $\ll$ " must not be printed.
- If page  $n$  is in the navigation, the button " $\gg$ " must not be printed.
- If the page number is smaller than 1 or greater than  $n$ , it must not be printed.

You can see some examples of the navigations. Make a program that prints the navigation.

### Input

The first and the only line contains three integers  $n, p, k$  ( $3 \leq n \leq 100$ ;  $1 \leq p \leq n$ ;  $1 \leq k \leq n$ )

### Output

Print the proper navigation. Follow the format of the output from the test samples.

#### Examples

<b>input</b>	<a href="#">Copy</a>
17 5 2	
<b>output</b>	<a href="#">Copy</a>
$\ll \ 3 \ 4 \ (5) \ 6 \ 7 \ \gg$	
<b>input</b>	<a href="#">Copy</a>
6 5 2	
<b>output</b>	<a href="#">Copy</a>
$\ll \ 3 \ 4 \ (5) \ 6$	
<b>input</b>	<a href="#">Copy</a>
6 1 2	
<b>output</b>	<a href="#">Copy</a>
$(1) \ 2 \ 3 \ \gg$	
<b>input</b>	<a href="#">Copy</a>
6 2 2	
<b>output</b>	<a href="#">Copy</a>
$1 \ (2) \ 3 \ 4 \ \gg$	
<b>input</b>	<a href="#">Copy</a>
9 6 3	
<b>output</b>	<a href="#">Copy</a>
$\ll \ 3 \ 4 \ 5 \ (6) \ 7 \ 8 \ 9$	

### Codeforces Round #233 (Div. 2)

Finished

Practice



#### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest](#)

#### → Clone Contest to Mashup

You can clone this contest to a mashup.

[Clone Contest](#)

#### → Submit?

Language: PyPy 3.6 (7.2.0)

Choose file:  [浏览...](#)

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

[Submit](#)

#### → Last submissions

Submission	Time	Verdict
<a href="#">66463611</a>	Dec/07/2019 18:43	Accepted

#### → Problem tags

[implementation](#)

No tag edit access

#### → Contest materials

- Tutorial #1 (en) [×](#)
- Tutorial #2 (ru) [×](#)

input	Copy
10 6 3	
output	Copy
<< 3 4 5 (6) 7 8 9 >>	

  

input	Copy
8 5 4	
output	Copy
1 2 3 4 (5) 6 7 8	

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 Server time: Dec/08/2019 09:55:48<sup>UTC+8</sup> (f1).  
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