

1903 - I2P(II)Yang_Winter_Vacation_Homework_2020

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Time

2020/01/20 00:00:00

32days, 08:30:18

2020/02/22 00:00:00

Clarification

Problem

Asker

Description

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Overview

Problem ▾

12602 - OuQ String

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Description

Define the level 1 string $s_1 = \text{"OuQ"}$,
and the level k string $s_k = \text{"O"} + s_{k-1} + \text{"u"} + s_{k-1} + \text{"Q"}$.

For example:

- $s_2 = \text{"O"} + s_1 + \text{"u"} + s_1 + \text{"Q"} = \text{"OOuQuOuQQ"}$
- $s_3 = \text{"OOOuQuOuQQQuOOuQuOuQQQ"}$

Given 3 integers k, l, r .

Please find all characters of $s_k[l], s_k[l+1], \dots, s_k[r-1], s_k[r]$

Input

There're multiple testcases in input.

Three integers k, l, r on each line.

- $1 \leq k \leq 50$
- $0 \leq l \leq r < \text{length of } s_k$
- $1 \leq |r-l+1| \leq 100$

Output

For each testcase, print $|r-l+1|$ characters, $s_k[l], s_k[l+1], \dots, s_k[r-1], s_k[r]$, for a line.

Remember '\n' on the end of each line.

Sample Input

Download (data:text/plain;charset=utf-8,1%200%202%0D%0A2%201%207%0D%0A1%201%201)

```
1 0 2
2 1 7
1 1 1
```

Sample Output

Download (data:text/plain;charset=utf-8,OuQ%0D%0AOuQuOuQ%0D%0Au)

```
OuQ
OuQuOuQ
u
```

Discuss