## Problem E. Equilibrium Point / $\backslash /$

$\begin{array}{ll}\text { Time limit: } & 3 \text { seconds } \\ \text { Memory limit: } & 512 \text { megabytes }\end{array}$
Consider a balanced bracket sequence $s$ with one type of brackets: '(' and ')'.
There is a common geometrical representation of such a sequence. Starting at the point $(0,0)$, you draw a polyline, for each bracket moving along a vector $(1,1)$ if it is an opening bracket, and along $(1,-1)$ if it is a closing bracket.


Consider an area between this curve and the line $y=0$. It is a set of polygons. This area has its center of mass at some point $(x, y)$. Note that the center of mass might be outside of the area.
You are to solve the reverse problem. Given the length $n$ and a point $(x, y)$, find any balanced bracket sequence of length $n$ such that the center of mass of its geometrical representation is located at $(x, y)$.

## Input

The first line contains three numbers $n, x$, and $y$ ( $n$ is an even integer, $2 \leq n \leq 36 ; 0<x, y<n$ ) - the length of the desired sequence and the coordinates of the desired center of mass.
It is guaranteed that $(x, y)$ is the center of mass of some balanced bracket sequence of length $n$, with Euclidean-distance error of no more than $10^{-9}$.

## Output

Output a balanced bracket sequence with brackets '(' and ')' of length $n$ such that the center of mass of its geometrical representation is located at the point $(x, y)$, with Euclidean-distance error of no more than $10^{-7}$.

## Example

| standard input | standard output |
| :--- | :--- |
| 63.40 .6 | ()$(())$ |

