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## Trees and parentheses

P67136\_en

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Write a program that reads the shape of various general trees and prints the parenthesis associated to each tree, as it is shown at the instance.

### Input

Input starts with  $m$ , the number of trees that must be treated. The description of the  $m$  trees follow as is explained at the exercise : "", with two exceptions: The values are not given, because the content of the nodes here is not important. The number of nodes is neither given, because you do not need to store the trees in any vector to solve this exercise.

### Output

Your program must print a line for each tree of the input, with its associated parentheses.

#### Sample input

```
9
1 0
2 0 0
1 1 0
0
3 0 0 0
2 1 0 0
2 0 1 0
1 2 0 0
1 1 1 0
```

#### Sample output

```
()
()()
(())
()()()
(())()
()()()
()()()
((()))
```

### Problem information

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