**Parenthetical Problems**

Max Score: 19

Thankfully, Hiroto has found his password and has gained access to his computer. He is all ready to start working on his latest coding project. However, his code is very messy and contains many sets of nested parentheses, which are these symbols -> ().

Even worse, his code is giving him a SyntaxError saying his parantheses are not closed! Help him find out all the possible combinations of valid parenthetical strings given n pairs of parentheses. A valid parenthetical string is one where each opening parenthesis has a respective closing parenthesis.

**Input Format**

An integer *n*, representing the number of pairs of parentheses

**Constraints**

1 <= *n* <= 7

**Output Format**

A list of strings with all the possible parenthetical strings using *n* pairs of parentheses. Reminder: A valid parenthetical string is one where each opening parenthesis has a respective closing parenthesis.

**Sample Input 0**

1

**Sample Output 0**

['()']

**Explanation 0**

Given only a single pair of parenthesis, only one parenthetical string can be made.