

PSH: Balanced Parenthesis

Complete the code below to generate a list of balanced parenthetical expressions using n sets of parenthesis.

Input Format

Input consists of a single integer n .

Constraints

$0 \leq n \leq 12$

Output Format

All balanced parenthetical expressions using exactly n sets of parenthesis.

Sample Input 0

```
2
```

Sample Output 0

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