Project 6

You are going to write a complete C program which implements the following functionality:

- Your program will read a file named input.txt
- input.txt contains single line text. The text describes a tree structure. It follows the Newick format rules. But there are simplifications and/or modifications:
 - There isn't any space between the characters.
 - Each node is represented by a single character. They are separated by comma. Branching is described by matching parentheses.
 - The length of the text will not be greater than 100
- Below is an example of a tree description:

- This tree can be visualized as follows:
 - -A
 - --c
- --B
- --е
- -K
- -D
- -е --f
- ---d
- ---F
- Another example:

- Visualization:
- -A
- --A
- --A
- ---A
- --A
- -A

• Another example:

```
A,(A,A,(A),A),A
```

• Visualization:

Α -A -A

--A

-A

Α

- Your program will read the simplified newick formatted tree description from a file and print the visualization of the described tree to stdout.
- Core part of your implementation (parsing and printing) should utilize recursion otherwise you will get Opts. For this problem, coding without recursion is significantly easier.
- Pay attention to the structure of the output. If your program prints something slightly different or anything extra, you will loose at least 20pts. Don't print any debug messages or greeting texts. Don't add extra spaces, newlines, commas etc...

Turn in:

A complete C program < Project6.c> which can be compiled using the following command:

```
gcc-std=c99 Project6.c-o Project6
```

If your program requires additional compile and link options, state that requirement at beginning of your source code as a comment.