

1. Starting from the grammar for regular expressions

$$E \rightarrow T \mid ' E \mid T ,$$
$$T \rightarrow FT \mid F ,$$
$$F \rightarrow P^* \mid P ,$$
$$P \rightarrow (E) \mid 1$$

write a recursive-descent application which builds internally the expression tree (i.e. the abstract syntax tree, AST) for any regular expression.

Example:

$(a|bb)^*ba$

