1. input string: (1+2+(3+4))+5
Grammar: S → E+S | E E → numbrt | (S)

S
S → E+S
S → (S)+S
S → (E+S)+S
S → (numbrt+E)+S
S → (numbrt+numbrt)+S
S → (numbrt+numbrt+(S))+S
S → (numbrt+numbrt+(E+E))+S
S → (numbrt+numbrt+(numbrt+numbrt))+S
S → (numbrt+numbrt+(numbrt+numbrt))+E
S → (numbrt+numbrt+(numbrt+numbrt))+numbrt

2. input string: 1+(2+-(3+4))+5
Grammar: S → E+S | E E → numbrt | -(S)

S
S → E+S
S → numbrt+S
S → numbrt+E+S
S → numbrt+numbrt+S
S → numbrt+numbrt+-(S)
S → numbrt+numbrt+-(E+E)
S → numbrt+numbrt+-(numbrt+numbrt)
S → numbrt+numbrt+-(numbrt+numbrt)+numbrt

3. Remove ambiguity: S → S+S | S-S | S*S | S/S | -S | S^S | num
E → E+T | E-T | T
T → T*F | T/F | F
F → -F | P
P → P^F | num | (E)