

Public Test Cases

Completeness (Grammatical sentences that should be accepted and the expected output for each is a parse tree):

`s(T,[r, u, n,=,0,;,while,'(',r, u, n, <=, w, -, 1, ')', r, u, n, =, 2, *, r, u, n, +, 1, ;],[[]]).`

`s(T, [if, '(', 'C', o, m, p, i, l, e, r, >, o, t, h, e, r, s, ')', a, l, l, =, 1, ;], [[]]).`

`s(T, [while,'(',r, u, n, <=, w, -, 1, ')', r, u, n, =, 2, *, r, u, n, +, 1, ;], [[]]).`

`s(T,[if, '(', 'T', o, t, a, l, <, 500, ')', 'T', o, t, a, l, =, 'T', o, t, a, l, +, 150, ;, else, if, '(', x, '!=', 'T', o, t, a, l, ')', 'T', o, t, a, l, =, 0, ;, else, x, =, 55, /, y, -, 15, ;],[[]]).`

Soundness (Ungrammatical sentences that should be rejected):

`s(T, [v, =, 23, *, s, a, l, +, 1, a, z, ;], [[]]).`

`s(T, [x, =, z, ;, if, '(', x, >, y, ')', x, '_', n, e, w, =, z, ;, else, x, '_', n, e, w, =, y, ;, else, y, =, z, ;], [[]]).`

`s(T, [if, '(', x, >, 0, ')', x, =, x, -, 1], [[]]).`