**Gramática**

Gramática Original

O -> P N Pr | O 'and' O | O 'or' O | P N

P -> 'i' 'am' | P1 'are' | P2 'is'

P1 -> 'you' | 'we' | 'they'

P2 -> 'he' | 'she' | 'it'

N -> 'running' | 'sleeping' | 'eating' | 'climbing' | 'thinking'

Prep -> 'behind' | 'by' | 'near' | 'around' | 'beside' | 'in' | 'on' | 'at'

Plcs -> 'park' | 'cinema' | 'school' | 'house'

Pr -> Prep 'the' Plcs

Eliminar Ambigüedad

O -> O 'and' T | T

T -> T 'or' F | F

F -> P N Pr | P N

P -> 'i' 'am' | P1 'are' | P2 'is'

P1 -> 'you' | 'we' | 'they'

P2 -> 'he' | 'she' | 'it'

N -> 'running' | 'sleeping' | 'eating' | 'climbing' | 'thinking'

Prep -> 'behind' | 'by' | 'near' | 'around' | 'beside' | 'in' | 'on' | 'at'

Plcs -> 'park' | 'cinema' | 'school' | 'house'

Pr -> Prep 'the' Plcs

Eliminar Recursividad izquierda

O -> T Oa

Oa -> 'and' T Oa |

T -> F Ta

Ta -> 'or' F Ta |

F -> P N Pr | P N

P -> 'i' 'am' | P1 'are' | P2 'is'

P1 -> 'you' | 'we' | 'they'

P2 -> 'he' | 'she' | 'it'

N -> 'running' | 'sleeping' | 'eating' | 'climbing' | 'thinking'

Prep -> 'behind' | 'by' | 'near' | 'around' | 'beside' | 'in' | 'on' | 'at'

Plcs -> 'park' | 'cinema' | 'school' | 'house'

Pr -> Prep 'the' Plcs

[Programa en Princeton](https://www.cs.princeton.edu/courses/archive/spring20/cos320/LL1/)

O ::= T Oa

Oa ::= and T Oa

Oa ::= ''

T ::= F Ta

Ta ::= or F Ta

Ta ::= ''

F ::= P N Pr

P ::= i am

P::= P1 are

P::= P2 is

P1 ::= you

P1::= they

P1::= we

P2 ::= he

P2::= it

P2::= she

N ::= running

N ::= thinking

N ::= climbing

N ::= eating

N ::= sleeping

Prep ::= behind

Prep ::=at

Prep ::= on

Prep ::= in

Prep ::= beside

Prep ::= around

Prep ::= near

Prep ::= by

Plcs ::= park

Plcs ::= house

Plcs ::= school

Plcs ::= cinema

Pr ::= Prep the Plcs

Construir primer y siguiente estado