

Ejemplos de ejecución

1. Ejecutando:

```
cargo run --release -- gramatica2.txt 'ccc'
```

```
ae@march ~/s/l/fuerza (main)> cargo run --release -- gramatica2.txt 'ccc'
    Finished release [optimized] target(s) in 0.00s
    Running `target/release/fuerza gramatica2.txt ccc`
INFO:: Leyendo gramatica de la ruta "gramatica2.txt"
INFO:: Gramatica con representacion Grammar { nt_sorted: [0, 1, 2], non_termina
l: ["E", "S", "B"], number_rules: [3, 3, 5], starting_ptr: [0, 3, 6], rhs: ["aE
", "bE", "cS", "eS", "bB", "cB", "bE", "cE", "c", "g", "h"] }
INFO:: Evaluando "ccc#"
INFO:: Grammar {
  E → aE|bE|cS
  S → eS|bB|cB
  B → bE|cE|c|g|h
}

(Q, 1, ε, E#)
(Caso 1 ) ⊢ (Q, 1, {E1}, aE#)
(Caso 4 ) ⊢ (B, 1, {E1}, aE#)
(Caso 6a) ⊢ (Q, 1, {E2}, bE#)
(Caso 4 ) ⊢ (B, 1, {E2}, bE#)
(Caso 6a) ⊢ (Q, 1, {E3}, cS#)
(Caso 2 ) ⊢ (Q, 2, {E3}c, S#)
(Caso 1 ) ⊢ (Q, 2, {E3}c{S1}, eS#)
(Caso 4 ) ⊢ (B, 2, {E3}c{S1}, eS#)
(Caso 6a) ⊢ (Q, 2, {E3}c{S2}, bB#)
(Caso 4 ) ⊢ (B, 2, {E3}c{S2}, bB#)
(Caso 6a) ⊢ (Q, 2, {E3}c{S3}, cB#)
(Caso 2 ) ⊢ (Q, 3, {E3}c{S3}c, B#)
(Caso 1 ) ⊢ (Q, 3, {E3}c{S3}c{B1}, bE#)
(Caso 4 ) ⊢ (B, 3, {E3}c{S3}c{B1}, bE#)
(Caso 6a) ⊢ (Q, 3, {E3}c{S3}c{B2}, cE#)
(Caso 2 ) ⊢ (Q, 4, {E3}c{S3}c{B2}c, E#)
(Caso 1 ) ⊢ (Q, 4, {E3}c{S3}c{B2}c{E1}, aE#)
(Caso 4 ) ⊢ (B, 4, {E3}c{S3}c{B2}c{E1}, aE#)
(Caso 6a) ⊢ (Q, 4, {E3}c{S3}c{B2}c{E2}, bE#)
(Caso 4 ) ⊢ (B, 4, {E3}c{S3}c{B2}c{E2}, bE#)
(Caso 6a) ⊢ (Q, 4, {E3}c{S3}c{B2}c{E3}, cS#)
(Caso 4 ) ⊢ (B, 4, {E3}c{S3}c{B2}c{E3}, cS#)
(Caso 6c) ⊢ (B, 4, {E3}c{S3}c{B2}c, E#)
(Caso 5 ) ⊢ (B, 3, {E3}c{S3}c{B2}, cE#)
(Caso 6a) ⊢ (Q, 3, {E3}c{S3}c{B3}, c#)
(Caso 2 ) ⊢ (Q, 4, {E3}c{S3}c{B3}c, #)
(Caso 3 ) ⊢ (T, 4, {E3}c{S3}c{B3}c, ε)
La gramatica acepto la entrada "ccc#"
```

2. Ejecutando

```
cargo run --release -- gramatica.txt 'b+b'
```

```
ae@march ~/s/l/fuerza (main)> cargo run --release -- gramatica.txt 'b+b'
    Finished release [optimized] target(s) in 0.00s
    Running `target/release/fuerza gramatica.txt b+b`
INFO:: Leyendo gramatica de la ruta "gramatica.txt"
INFO:: Gramatica con representacion Grammar { nt_sorted: [2, 4, 0, 1, 3, 5], no
n_terminal: ["S", "E", "E'", "T", "T'", "F"], number_rules: [1, 1, 2, 1, 2, 2],
starting_ptr: [0, 1, 2, 4, 5, 7], rhs: ["E", "TE'", "+TE'", "", "FT'", "*FT'",
"", "b", "(E)"] }
INFO:: Evaluando "b+b#"
INFO:: Grammar {
    S → E
    E → TE'
    E' → +TE'|ε
    T → FT'
    T' → *FT'|ε
    F → b|(E)
}

(Q, 1, ε, S#)
(Caso 1 ) ⊢ (Q, 1, {S1}, E#)
(Caso 1 ) ⊢ (Q, 1, {S1}{E1}, TE'#)
(Caso 1 ) ⊢ (Q, 1, {S1}{E1}{T1}, FT'E'#)
(Caso 1 ) ⊢ (Q, 1, {S1}{E1}{T1}{F1}, bT'E'#)
(Caso 2 ) ⊢ (Q, 2, {S1}{E1}{T1}{F1}b, T'E'#)
(Caso 1 ) ⊢ (Q, 2, {S1}{E1}{T1}{F1}b{T'1}, *FT'E'#)
(Caso 4 ) ⊢ (B, 2, {S1}{E1}{T1}{F1}b{T'1}, *FT'E'#)
(Caso 6a) ⊢ (Q, 2, {S1}{E1}{T1}{F1}b{T'2}, E'#)
(Caso 1 ) ⊢ (Q, 2, {S1}{E1}{T1}{F1}b{T'2}{E'1}, +TE'#)
(Caso 2 ) ⊢ (Q, 3, {S1}{E1}{T1}{F1}b{T'2}{E'1}+, TE'#)
(Caso 1 ) ⊢ (Q, 3, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}, FT'E'#)
(Caso 1 ) ⊢ (Q, 3, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}{F1}, bT'E'#)
(Caso 2 ) ⊢ (Q, 4, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}{F1}b, T'E'#)
(Caso 1 ) ⊢ (Q, 4, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}{F1}b{T'1}, *FT'E'#)
(Caso 4 ) ⊢ (B, 4, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}{F1}b{T'1}, *FT'E'#)
(Caso 6a) ⊢ (Q, 4, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}{F1}b{T'2}, E'#)
(Caso 1 ) ⊢ (Q, 4, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}{F1}b{T'2}{E'1}, +TE'#)
(Caso 4 ) ⊢ (B, 4, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}{F1}b{T'2}{E'1}, +TE'#)
(Caso 6a) ⊢ (Q, 4, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}{F1}b{T'2}{E'2}, #)
(Caso 3 ) ⊢ (T, 4, {S1}{E1}{T1}{F1}b{T'2}{E'1}+{T1}{F1}b{T'2}{E'2}, ε)
La gramatica acepto la entrada "b+b#"
```