G0 S’ → S $k (0)

S → C C (1)

C → a C (2)

C → b (3)

| pile | mot | action |
| --- | --- | --- |
|  | abaab | sh |
| a | baab | sh |
| ab | aab | reduce(3) |
| aC | aab | reduce(2) |
| C | aab | sh |
| Ca | ab | sh |
| Caa | b | sh |
| Caab | λ | reduce(3) |
| CaaC | λ | reduce(2) |
| CaC | λ | reduce(2) |
| CC | λ | reduce(1) |
| S | λ | reduce(0) |
| S’ | λ | Accept |



| pile | mot | action |
| --- | --- | --- |
| I0 | abaab | sh |
| I0 a I3 | baab | sh |
| I0 a I3 b I4 | aab | reduce(3) |
| I0 a I3 C I6 | aab | reduce(2) |
| I0 C I2 | aab | sh |
| I0 C I2 a I3 | ab | sh |
| I0 C I2 a I3 a I3 | b | sh |
| I0 C I2 a I3 a I3 b I4 | λ | reduce(3) |
| I0 C I2 a I3 a I3 C | λ | reduce(2) |
| CaC | λ | reduce(2) |
| CC | λ | reduce(1) |
| S | λ | reduce(0) |
| S’ | λ | Accept |



|  | a | b | c | A | S | λ |
| --- | --- | --- | --- | --- | --- | --- |
| I0 | sh I2 | err | err | err | I1 | err |
| I1 | err | err | err | err | err | accept si vide |
| I2 | err | sh I4 | err | I3 | err | err |
| I3 | err | sh I6 | sh I5 | err | err | err |
| I4 | err | err | err | err | err | reduce 3 |
| I5 | err | err | err | err | err | reduce 1 |
| I6 | err | sh I7 | err | err | err | err |
| I7 | err | err | err | err | err | reduce 2 |



G4

S’ → S $k (0)

S → S a (1)

S → a (2)

I0

S’ → . S $

S → . S a, $

S → . a, $

S → . S a, a

S → . a, a

goto(I0, S) = I1

S’ → S . $

S → S . a, $

S → S . a, a

goto(I0, a) = I2

S → a ., $

S → a ., a

goto(I1, a) = I3

S → S a ., $

S → S a ., a

| pile | mot | action |
| --- | --- | --- |
| I0 | aaaaa | sh |
| I0 a I2 | aaaa | reduce 2 |
| I0 S I1 | aaaa | sh |
| I0 S I1 aI3 | aaa | reduce 1 |
| I0 S I1 | aaa | sh |
| I0 S I1 aI3 | aa | reduce 1 |
| I0 S I1 | aa | sh |
| I0 S I1 aI3 | a | reduce 1 |
| I0 S I1 | a | sh |

G4

S’ → S $k (0)

S → a S (1)

S → a (2)

I0

S’ → . S $

S → . a S, $

S → . a, $

goto(I0, S) = I1

S’ → S . $

goto(I0, a) = I2

S → a . S, $

S → a ., a

S → . a S, $

S → . a, a

goto(I2, S) = I3

S → a S ., $

goto(I2, a) = I2

S → a . S, $

S → a ., a

S → . a S, $

S → . a, a

| pile | mot | action |
| --- | --- | --- |
| I0 | aaaaa$ | sh |
| I0 a I2 | aaaa$ | sh |
| I0 a I2 a I2 | aaa$ | sh |
| I0 a I2 a I2 a I2 | aa$ | sh |
| I0 a I2 a I2 a I2 a I2 | a$ | sh |
| I0 a I2 a I2 a I2 a I2 a I2 | $ | reduce 2 |
| I0 a I2 a I2 a I2 a I2 S I3 | $ | reduce 1 |
| …… | …. | …… |

G5 S′ → S $k (0)

S → a A d (1)

S → b A B (2)

A → c A (3)

A → c (4)

B → d (5)

I0 S’ → . S, $

S → . a A d, $

S → . b A B, $

goto(I0, S) = I1

S’ → S ., $

goto(I1, a) = I2

S → a . A d, $

A → . c A, d

A → . c, d

goto(I0, b) = I3

S → b . A B, $

A → . c A, first1(B $) = d

A → . c, d

goto(I2, A) = I4

S → a A . d, $

goto(I2, c) = I5

A → c . A, d

A → c ., d

(implicite en I5 donc pas LR(0) (donc on rajoute “, $”))

A → . c A, d

A → . c, d

goto(I3, A) = I6

S → b A . B, $

B → . d, $

goto(I3, c) = I5

A → c . A, d

A → c ., d

A → . c A, d

A → . c, d

goto(I4, d) = I7

S → . A d, $

goto(I5, A) = I8

A → c A ., d

goto(I5, c) = I5

A → c . A, d

A → c ., d

A → . c A, d

A → . c, d

goto(I6, B) = I9

S → b A B ., $

goto(I6, d) = I10

B → d ., $