**Ejercicio LALR**

**Gramática.**

1. F->cBB
2. B->aB
3. B->b

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Estado** | **Acción** | | | | **ir\_a / mover** | |
| **c** | **a** | **b** | **$** | **F** | **B** |
| 1 | s1 |  |  |  |  |  |
| 2 |  | s3 | s4 |  |  | 2 |
| 3 |  | s3 | s4 |  |  | 5 |
| 4 |  | s3 | s4 |  |  | 6 |
| 5 |  | r2 | r2 | r2 |  |  |
| 6 |  |  |  | acc |  |  |
| 7 |  | r1 | r1 | r1 |  |  |

**Análisis LALR.**

|  |  |  |
| --- | --- | --- |
| Entrada | Pila | Acción |
| c a a a b a b $ | 0 | s1 |
| a a a b a b $ | 0 c 1 | s3 |
| a a b a b $ | 0 c 1 a 3 | s3 |
| a b a b $ | 0 c 1 a 3 a 3 | s3 |
| b a b $ | 0 c 1 a 3 a 3 a 3 | s4 |
| a b $ | 0 c 1 a 3 a 3 a 3 b 4 | r2 |
| a b $ | 0 c 1 a 3 a 3 a 3 B | 6 |
| a b $ | 0 c 1 a 3 a 3 a 3 B 6 | r1 |
| a b $ | 0 c 1 a 3 a 3 B | 6 |
| a b $ | 0 c 1 a 3 a 3 B 6 | r1 |
| a b $ | 0 c 1 a 3 B | 6 |
| a b $ | 0 c 1 a 3 B 6 | r1 |
| a b $ | 0 c 1 B | 2 |
| a b $ | 0 c 1 B 2 | s3 |
| b $ | 0 c 1 B 2 a 3 | s4 |
| $ | 0 c 1 B 2 a 3 b 4 | r2 |
| $ | 0 c 1 B 2 a 3 B | 6 |
| $ | 0 c 1 B 2 a 3 B 6 | r1 |
| $ | 0 c 1 B 2 B | 5 |
| $ | 0 c 1 B 2 B 5 | acc |

Por lo tanto si pertenece a L(G)