

Matrícula: 92558 \rightarrow binário = **10100000110010010** \rightarrow A = 1,1,0,0,1,2,1,0,2

A = 00 \rightarrow 0,1,2...; A = 01 \rightarrow 3,2,4...; A = 10 \rightarrow 1,3,2,3...; A = 11 \rightarrow 5,6,3...;

q0 = 000, q1 = 001, q2 = 010, q3 = 011, q4 = 100, q5 = 101, q6 = 110, q3b = 111

| | A1 | A0 | Estado (atual) | | | Prox | | | s2 | s1 | s0 | OCT |
|----|----|----|----------------|----|---------|------|----|---------|----|----|----|-----|
| | | | e2 | e1 | e0 | p2 | p1 | p0 | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 (q0) | 0 | 0 | 1 (q1) | 0 | 0 | 0 | 10 |
| 1 | 0 | 0 | 0 | 0 | 1 (q1) | 0 | 1 | 0 (q2) | 0 | 0 | 1 | 21 |
| 2 | 0 | 0 | 0 | 1 | 0 (q2) | 0 | 0 | 0 (q0) | 0 | 1 | 0 | 02 |
| 3 | 0 | 0 | 0 | 1 | 1 (q3) | 0 | 1 | 0 (q0) | 0 | 1 | 1 | 23 |
| 4 | 0 | 0 | 1 | 0 | 0 (q4) | 0 | 0 | 0 (q0) | 1 | 0 | 0 | 34 |
| 5 | 0 | 0 | 1 | 0 | 1 (q5) | 0 | 0 | 0 (q0) | 1 | 0 | 1 | 65 |
| 6 | 0 | 0 | 1 | 1 | 0 (q6) | 0 | 0 | 0 (q0) | 1 | 1 | 0 | 36 |
| 7 | 0 | 0 | 1 | 1 | 1 (q3b) | 0 | 0 | 0 (q0) | 0 | 1 | 1 | 03 |
| 8 | 0 | 1 | 0 | 0 | 0 (q0) | 0 | 1 | 1 (q3) | 0 | 0 | 0 | 10 |
| 9 | 0 | 1 | 0 | 0 | 1 (q1) | 0 | 1 | 1 (q3) | 0 | 0 | 1 | 31 |
| 10 | 0 | 1 | 0 | 1 | 0 (q2) | 1 | 0 | 0 (q4) | 0 | 1 | 0 | 42 |
| 11 | 0 | 1 | 0 | 1 | 1 (q3) | 0 | 1 | 0 (q2) | 0 | 1 | 1 | 23 |
| 12 | 0 | 1 | 1 | 0 | 0 (q4) | 0 | 1 | 1 (q3) | 1 | 0 | 0 | 34 |
| 13 | 0 | 1 | 1 | 0 | 1 (q5) | 0 | 1 | 1 (q3) | 1 | 0 | 1 | 65 |
| 14 | 0 | 1 | 1 | 1 | 0 (q6) | 0 | 1 | 1 (q3) | 1 | 1 | 0 | 36 |
| 15 | 0 | 1 | 1 | 1 | 1 (q3b) | 0 | 1 | 0 (q2) | 0 | 1 | 1 | 23 |
| 16 | 1 | 0 | 0 | 0 | 0 (q0) | 0 | 0 | 1 (q1) | 0 | 0 | 0 | 10 |
| 17 | 1 | 0 | 0 | 0 | 1 (q1) | 0 | 1 | 1 (q3) | 0 | 0 | 1 | 31 |
| 18 | 1 | 0 | 0 | 1 | 0 (q2) | 1 | 1 | 1 (q3b) | 0 | 1 | 0 | 72 |
| 19 | 1 | 0 | 0 | 1 | 1 (q3) | 0 | 1 | 0 (q2) | 0 | 1 | 1 | 23 |
| 20 | 1 | 0 | 1 | 0 | 0 (q4) | 0 | 0 | 1 (q1) | 1 | 0 | 0 | 34 |
| 21 | 1 | 0 | 1 | 0 | 1 (q5) | 0 | 0 | 1 (q1) | 1 | 0 | 1 | 65 |
| 22 | 1 | 0 | 1 | 1 | 0 (q6) | 0 | 0 | 1 (q1) | 1 | 1 | 0 | 36 |
| 23 | 1 | 0 | 1 | 1 | 1 (q3b) | 0 | 0 | 1 (q1) | 0 | 1 | 1 | 13 |
| 24 | 1 | 1 | 0 | 0 | 0 (q0) | 1 | 0 | 1 (q5) | 0 | 0 | 0 | 10 |
| 25 | 1 | 1 | 0 | 0 | 1 (q1) | 1 | 0 | 1 (q5) | 0 | 0 | 1 | 21 |
| 26 | 1 | 1 | 0 | 1 | 0 (q2) | 1 | 0 | 1 (q5) | 0 | 1 | 0 | 52 |
| 27 | 1 | 1 | 0 | 1 | 1 (q3) | 1 | 0 | 1 (q5) | 0 | 1 | 1 | 53 |
| 28 | 1 | 1 | 1 | 0 | 0 (q4) | 1 | 0 | 1 (q5) | 1 | 0 | 0 | 34 |
| 29 | 1 | 1 | 1 | 0 | 1 (q5) | 1 | 1 | 0 (q6) | 1 | 0 | 1 | 65 |
| 30 | 1 | 1 | 1 | 1 | 0 (q6) | 0 | 1 | 1 (q3) | 1 | 1 | 0 | 36 |
| 31 | 1 | 1 | 1 | 1 | 1 (q3b) | 1 | 0 | 1 (q5) | 0 | 1 | 1 | 53 |

Diagrama de Estados (diagrama em ascii comentado no código)

