**D := DATA.**

|  |  |
| --- | --- |
| D | Qt+1 |
| 0 | 0 |
| 1 | 1 |

|  |  |  |
| --- | --- | --- |
| Qt | D | Qt+1 |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

|  |  |  |
| --- | --- | --- |
| Qt | Qt+1 | D |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

**RS := Reset - Set.**

|  |  |  |
| --- | --- | --- |
| R | S | Qt+1 |
| 0 | 0 | Qt |
| 0 | 1 | 1 |
| 1 | 0 | 0 |
| 1 | 1 | ? |

|  |  |  |  |
| --- | --- | --- | --- |
| Qt | R | S | Qt+1 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | ? |
| 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | ? |

|  |  |  |  |
| --- | --- | --- | --- |
| Qt | Qt+1 | R | S |
| 0 | 0 | X | 0 |
| 0 | 1 | 0 | 1 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | X |

**T := Toggle.**

|  |  |
| --- | --- |
| T | Qt+1 |
| 0 | Qt |
| 1 | **NO**Qt |

|  |  |  |
| --- | --- | --- |
| Qt | T | Qt+1 |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 0 |

|  |  |  |
| --- | --- | --- |
| Qt | Qt+1 | T |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 0 |

**JK := Jump - Kill.**

|  |  |  |
| --- | --- | --- |
| J | K | Qt+1 |
| 0 | 0 | Qt |
| 0 | 1 | 0 |
| 1 | 0 | 1 |
| 1 | 1 | **NO**Qt |

|  |  |  |  |
| --- | --- | --- | --- |
| Qt | J | K | Qt+1 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| Qt | Qt+1 | J | K |
| 0 | 0 | 0 | X |
| 0 | 1 | 1 | X |
| 1 | 0 | X | 1 |
| 1 | 1 | X | 0 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **At** | **Bt** | **I** | **At+1** | **Bt+1** | **DA** | **DB** |
| 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 |

**DA** = Bt\***NO**I + At\*I

**DB** = **NO**I\***NO**At + I\*At