**Proiect**

**Numarator**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **0** | **6** | **7** | **4** | **2** | **1** | **3** | **5** | **0** |
| 000 | 110 | 111 | 100 | 010 | 001 | 011 | 101 | 000 |

Tabele BB D

|  |  |  |
| --- | --- | --- |
| **Clock** | **D** | **Qnext** |
| Up | 0 | 0 |
| Up | 1 | 1 |
| Down | X | Q |

|  |  |  |
| --- | --- | --- |
| **D** | **Qn=Qpresent** | **Qn+1=Qnext** |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

Tabela numarator

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **QCurrent** | | | **QNext** | | |  |  |  |
| **Q2** | **Q1** | **Q0** | **Q2** | **Q1** | **Q0** | **D2** | **D1** | **D0** |
| 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 |
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |

**Automat**

**X=L**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **7** | **3** | **4** | **6** | **5** | **2** | **0** | **1** |
| 001 | 111 | 011 | 100 | 110 | 101 | 010 | 000 | 001 |

**X=H**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **7** | **6** | **1** | **3** | **0** | **5** | **4** | **2** | **7** |
| 111 | 110 | 001 | 011 | 000 | 101 | 100 | 010 | 111 |

Tabele BB D

|  |  |  |
| --- | --- | --- |
| **Clock** | **D** | **Qnext** |
| Up | 0 | 0 |
| Up | 1 | 1 |
| Down | X | Q |

|  |  |  |
| --- | --- | --- |
| **D** | **Qn=Qpresent** | **Qn+1=Qnext** |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

Tabela automat

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **QCurrent** | | | **QNext** | | |  |  |  |
| **X** | **Q2** | **Q1** | **Q0** | **Q2** | **Q1** | **Q0** | **D2** | **D1** | **D0** |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |