**Exercice:** Réaliser un décompteur asynchrone Modulo M=6 < 23 (5 --> 0)

Table de vérité du décompteur M=6

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **N** | **Q2** | **Q1** | **Q0** | **R2** | **S2** | **R1** | **S1** | **R0** | **S0** |
| **5** | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4** | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3** | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2** | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1** | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 1 | 1 | 1 | *0* | *1* | *1* | *0* | *0* | *1* |
| 6 | X | X | X | X | X | X | X | X | X |