1 bit half subtractor

|  |  |  |  |
| --- | --- | --- | --- |
| **Xo** | **X1** | **D** | **Bout** |
| 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 |
| 0 | 1 | 1 | 1 |
| 1 | 1 | 0 | 0 |

1 bit full subtractor

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **X0** | **Y1** | **C-in** | **S** | **C-out** |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 | 1 |
| 0 | 0 | 1 | 1 | 1 |
| 1 | 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 |