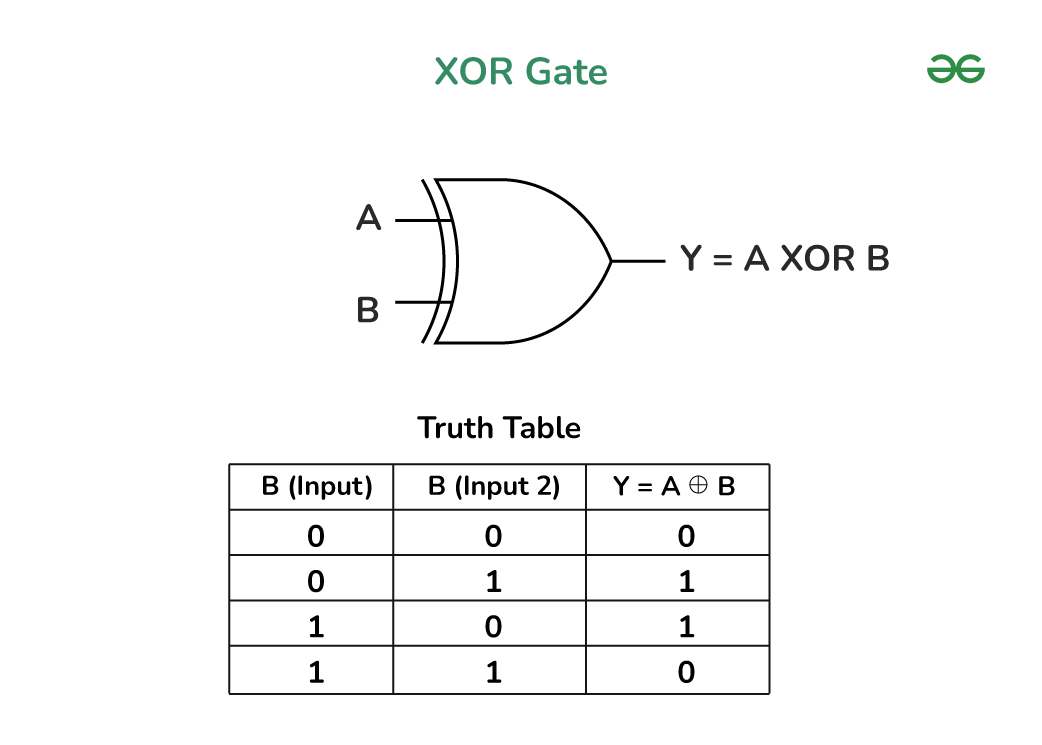
**XOR GATES**

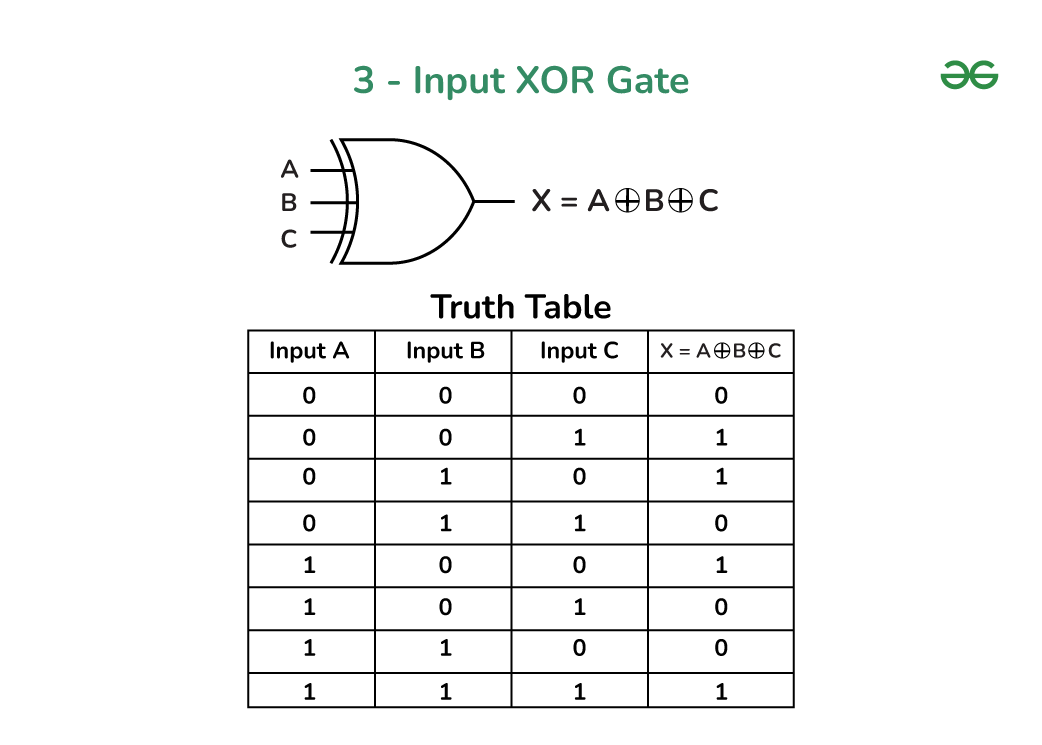
Output is **1** if **an odd number of inputs** are 1.

**2 INPUTS**



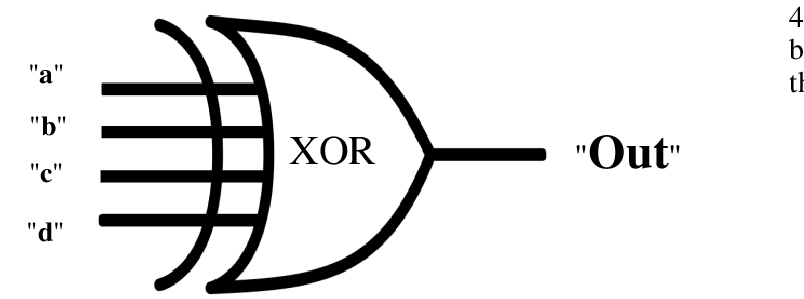
|  |  |  |
| --- | --- | --- |
| **A** | **B** | **OUTPUT** |
| **0** | **0** | **0** |
| **0** | **1** | **1** |
| **1** | **0** | **1** |
| **1** | **1** | **0** |

**3 INPUTS**



|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| **0** | **0** | **0** | **0** |
| **0** | **0** | **1** | **1** |
| **0** | **1** | **0** | **1** |
| **0** | **1** | **1** | **0** |
| **1** | **0** | **0** | **1** |
| **1** | **0** | **1** | **0** |
| **1** | **1** | **0** | **0** |
| **1** | **1** | **1** | **1** |

**4 INPUTS**



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **A** | **B** | **C** | **D** | **OUTPUT** |
| **0** | **0** | **0** | **0** | **0** |
| **0** | **0** | **0** | **1** | **1** |
| **0** | **0** | **1** | **0** | **1** |
| **0** | **0** | **1** | **1** | **0** |
| **0** | **1** | **0** | **0** | **1** |
| **0** | **1** | **0** | **1** | **0** |
| **0** | **1** | **1** | **0** | **0** |
| **0** | **1** | **1** | **1** | **1** |
| **1** | **0** | **0** | **0** | **1** |
| **1** | **0** | **0** | **1** | **0** |
| **1** | **0** | **1** | **0** | **0** |
| **1** | **0** | **1** | **1** | **1** |
| **1** | **1** | **0** | **0** | **0** |
| **1** | **1** | **0** | **1** | **1** |
| **1** | **1** | **1** | **0** | **1** |
| **1** | **1** | **1** | **1** | **0** |