## $(68)_{10} = (1000100)_2$

## Step by step solution

Step 1: Divide (68)<sub>10</sub> successively by 2 until the quotient is 0:

68/2 = 34, remainder is 0

34/2 = 17, remainder is 0

17/2 = 8, remainder is 1

8/2 = 4, remainder is 0

4/2 = 2, remainder is 0

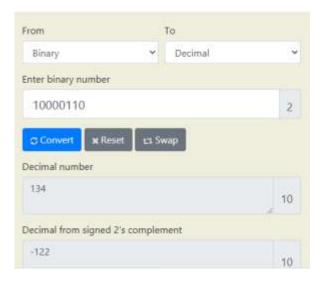
2/2 = 1, remainder is 0

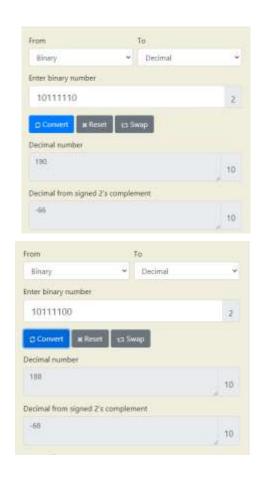
1/2 = 0, remainder is 1

Step 2: Read from the bottom (MSB) to top (LSB) as 1000100.

So, 1000100 is the binary equivalent of decimal number 68 (Answer).







https://www.rapidtables.com/convert