In [2]:
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#Name: Mohith Dande
Step 1: Find Binary of +42
First, write 42 in binary:
42 ÷ 2 = 21 R0
21 ÷ 2 = 10 R1
10 ÷ 2 = 5  R0
5 ÷ 2  = 2  R1
2 ÷ 2  = 1  R0
1 ÷ 2  = 0  R1

Reading remainders from bottom to top:
42 = 101010
Make it 8 bits:
00101010

Step 2: Find 2's Complement (for -42)
To get -42, do the 2's complement of 00101010:

Step 2.1: Invert the bits (0→1, 1→0):
00101010 → 11010101

Step 2.2: Add 1:
11010101
+       1
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11010110

Final Answer: 11010110
This is the 8-bit 2's complement representation of -42.
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In [1]:
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