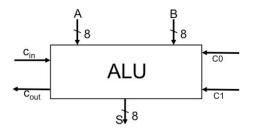
QUESTION: [35 points]

Design an 8 bit ALU with functionalities given in the below table, using full adders and logical elements (and, or, mux etc.).

(Note: Asuume B/2 in the table refers to: $\left\lfloor \frac{B}{2} \right\rfloor$)



<u>C1C0</u>	<u>İŞLEM</u>
00	$S = A + B + C_{in}$
01	S = - A + B
10	S = 1 + (B/2)
11	S = A + (B/2)

SOLUTION:

