Problem Statement:

S2	S1	S0	Output	Function
1	0	1	Ai -1	Decrement A
0	1	1	Ai + Bi	Add
1	1	1	Ai - Bi	Subtract
0	0	1	Ai	Transfer A
1	Х	0	Ai Bi	OR
0	Х	0	Ai'	Complement A