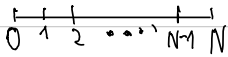
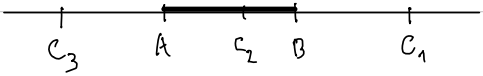
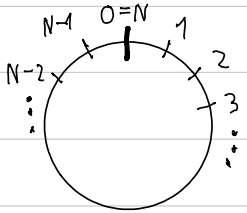


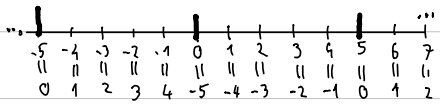


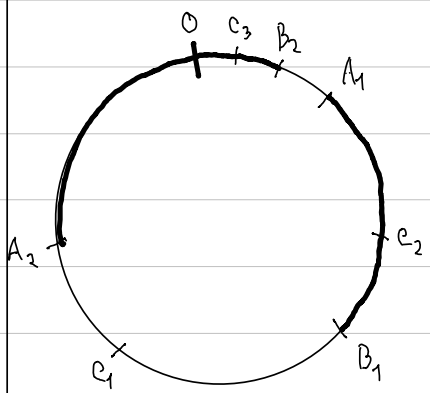
$A \le C \le B \Rightarrow C$ IS INSIDE $\langle A,B \rangle$

MOD N $\Rightarrow X = X+N$



UNROLL (FOR MOD 5)

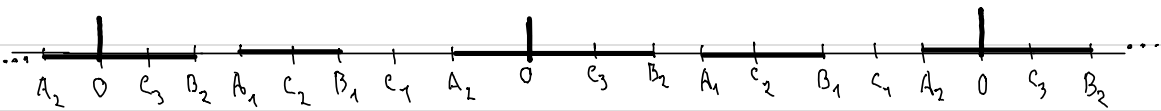




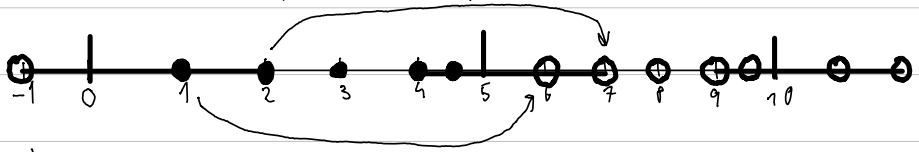
INTERVALS

$\langle A_1, B_1 \rangle$; $\langle A_2, B_2 \rangle$

UNROLL



FOR SIMPLICITY: MOD 5 ; A = 4 ; B = 2 ; $C_1 = 1$, $C_2 = 3$; $C_3 = 4.5$



(MOD N) USE $0 \le A, B, C < N$

IF $A \le B$: USE $A \le C \le B \Rightarrow C \in \langle A,B \rangle$

ELSE: IF $A \le C$: USE $A \le C \le B+N \Rightarrow C \in \langle A,B \rangle$

ELSE : USE $A \le C+N \le B+N \Rightarrow C \in \langle A,B \rangle$