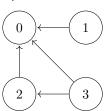
Exercise 10.2





b)

Agent	Current Value	Agent View	Constraint List
0	1	$\{x_1 \to 1, x_2 \to 2, x_3 \to 3\}$	$\{x_0 < x_1, x_0 \neq x_2, x_0 \neq x_3\}$
1	1	Ø	Ø
2	2	$\{x_3 o 3\}$	$\{x_2 \neq x_3\}$
3	3	Ø	Ø

Agent 1 sends $(ok?, x_1 \to 1)$ to Agent 0. Agent 2 sends $(ok?, x_2 \to 2)$ to Agent 0. Agent 3 sends $(ok?, x_3 \to 3)$ to Agent 0.

Agent 3 sends $(ok?, x_3 \rightarrow 3)$ to Agent 2.

Agent	Current Value	Agent View	Constraint List
0	2	$\{x_1 \to 1, x_2 \to 2, x_3 \to 3\}$	$\{x_0 < x_1, x_0 \neq x_2, x_0 \neq x_3\}$
1	1	Ø	Ø
2	2	$\{x_3 o 3\}$	$\{x_2 \neq x_3\}$
3	3	Ø	Ø

Agent 0 changes its number to 2 and sends $(nogood!, 0, x_2 \to 2)$ to Agent 2.

Agent	Current Value	Agent View	Constraint List
0	2	$\{x_2 \to 1, x_2 \to 4, x_3 \to 3\}$	$\{x_0 < x_1, x_0 \neq x_2, x_0 \neq x_3\}$
1	1	Ø	Ø
2	4	$\{x_3 o 3\}$	$\{x_2 \neq x_3, x_2 \neq 2\}$
3	3	Ø	Ø

Agent 2 changes its number to 4 sends $(ok?, x_2 \to 4)$ to Agent 1.