1a

 $B1 \rightarrow B3: B3, B1$ $B4 \rightarrow B2: B2, B4$

 $B4 \rightarrow B1: B1, B3, B2, B4$

1b

$$\begin{array}{l} gen[B1] = \{1,2,3,4\} \\ kill[B1] = \{1,6,7,9\} \end{array}$$

$$\begin{array}{l} gen[B2] = \{5,6\} \\ kill[B2] = \{4,7\} \end{array}$$

$$gen[B3] = \{7\}$$

 $kill[B3] = \{4,6\}$

$$\begin{array}{l} gen[B4] = \{8,9\} \\ kill[B4] = \{1,3\} \end{array}$$

1c

Block B	Initial		Pass 1	
	in[B]	out[B]	in[B]	out[B]
B1	0 0000 0000			
B2	0 0000 0000			
В3	0 0000 0000			
B4	0 0000 0000			