



(b)

$$\begin{aligned}
 I[i_0] &= [0, 0] \\
 I[i_1] &= [0, 99] \\
 I[i_2] &= [1, 99] \\
 I[i_t] &= [0, 98] \\
 I[j_0] &= [0, 99] \\
 I[j_1] &= [-1, 99] \\
 I[j_2] &= [-1, 98] \\
 I[j_t] &= [0, 99] \\
 I[k_0] &= [0, 0] \\
 I[k_1] &= [0, 100] \\
 I[k_2] &= [1, 100] \\
 I[k_t] &= [0, 99]
 \end{aligned}$$