$$P \lor Q \qquad \neg Q \lor \neg T \lor R$$

$$\neg Q \lor R \lor S \qquad \vdash P' \lor Q'$$

$$\neg S \lor T$$

$$\Longrightarrow^{*} (\neg P^{1}\, Q^{P \lor Q}\, \neg R^{2}\, S^{\neg Q \lor R \lor S}\, T^{\neg S \lor T},\ N,\ \emptyset,\ 2,\ \neg \underline{Q} \lor \underline{\neg T} \lor \underline{R})$$

$$\Longrightarrow_{Res} (\neg P^{1}\, Q^{P \lor Q}\, \neg R^{2}\, S^{\neg Q \lor R \lor S},\ N,\ \emptyset,\ 2,\ \underline{\neg Q} \lor \underline{\neg S} \lor \underline{R})$$

$$\Longrightarrow_{Res} (\neg P^{1}\, Q^{P \lor Q}\, \neg R^{2},\ N,\ \emptyset,\ 2,\ \neg \underline{Q} \lor \underline{R})$$

$$\Longrightarrow_{Backjump} (\neg P^{1}\, Q^{P \lor Q}\, R^{\neg Q \lor R},\ N,\ \{\neg Q \lor R\},\ 1,\ \top)$$

By contradiction

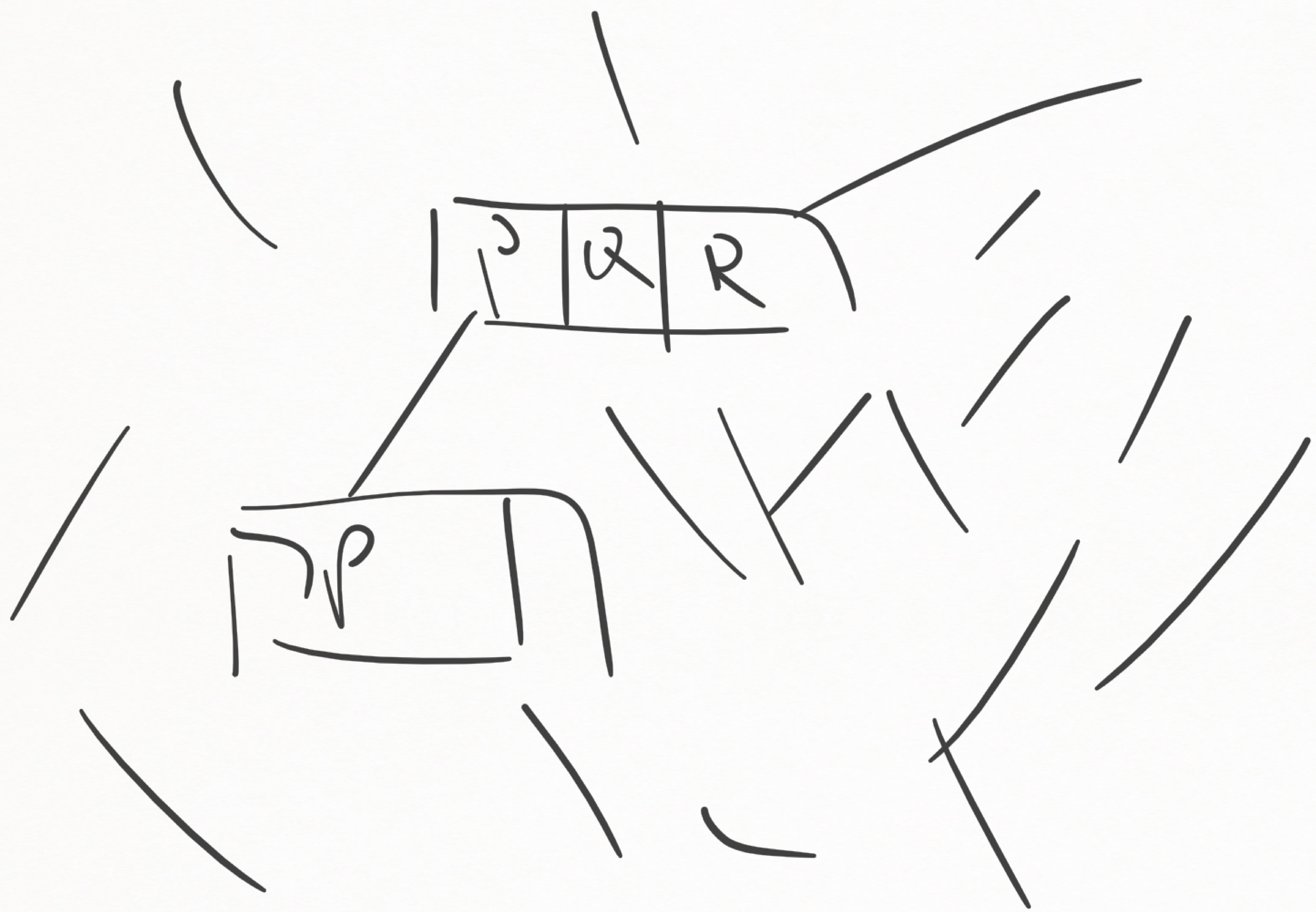
$(M, N, U, k, D \vee L) \Longrightarrow$ Backtrack

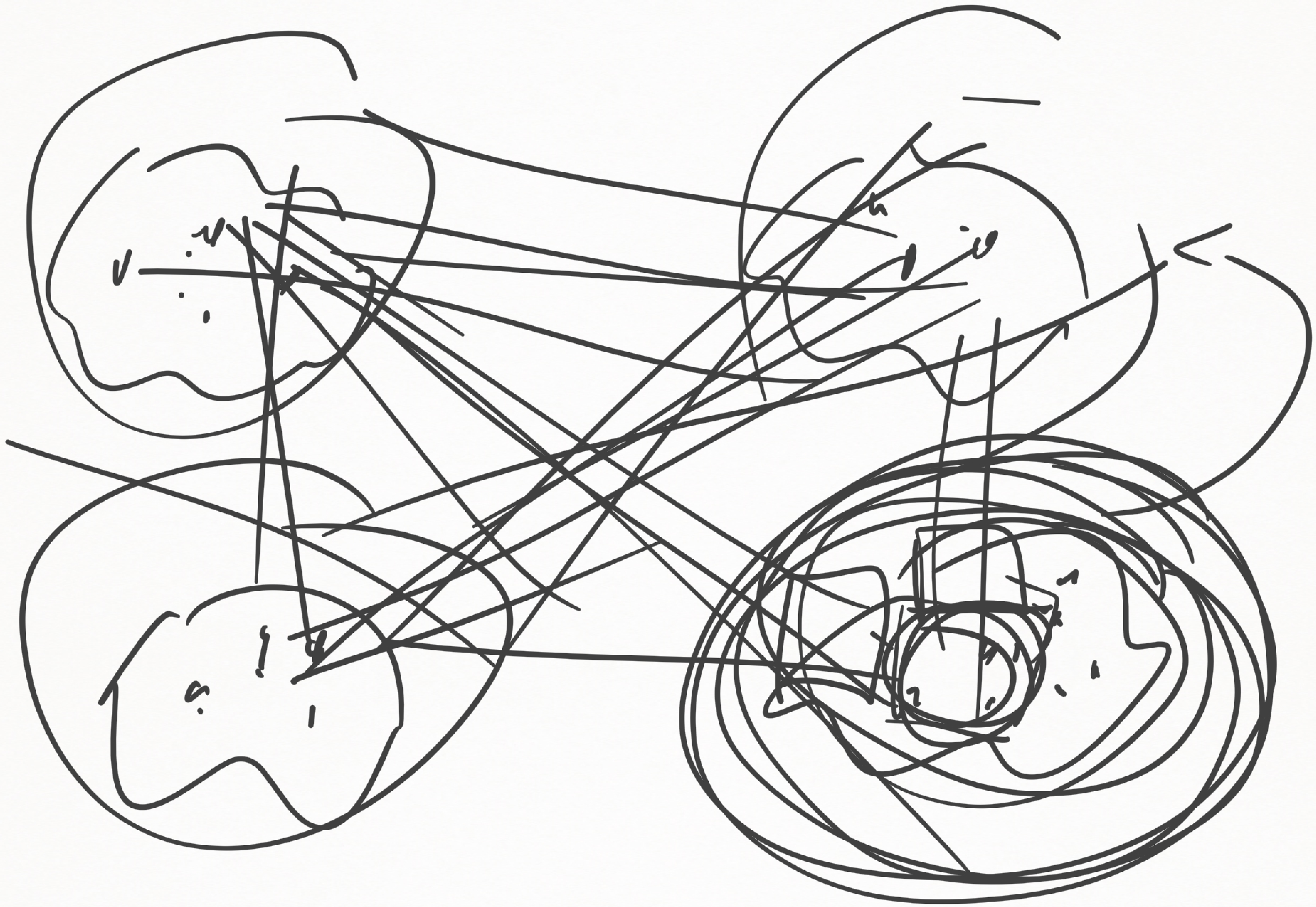
$(M_1 K^{l+1} M_2' K^k K_2 \dots K_n ; N, U, k, D \vee L)$

$K_j, j > 1$ don't occur in D

One of the K_j's complement of L ✓

$D \vee L$ is false in M


Q R
P



$$(\qquad , \; \underline{\underline{P \vee Q \vee R}}$$

$$\neq \; (\underline{\qquad\qquad} , \; \underline{\underline{P \vee Q}} \,)$$

$$\left.\begin{array}{l} P \lor Q \\ \neg P \lor R \end{array}\right\} Q \lor R$$

$$\left.\begin{array}{l} S \lor Q \\ \neg S \lor R \end{array}\right\} Q \lor R$$