$$A_1 \cap A_2 - \{a_{ij}|i,j <= D\} \qquad \bigcap_{k=1}^{R} A_k - \{\bigcap_k a_{k\alpha_k}|d_1,\ldots,d_k <= D\} \qquad A_1 \cap A_N - \{a_{i1} \cap a_{iN}|i <= D\}$$

$$A_1 \cap A_N - \{a_{ij}|i,j <= D\}$$

$$A_1 - \{a_{i1}|i <= D\} \qquad \ldots \qquad A_N - \{a_{iN}|i <= D\}$$

$$R^D$$