```
\lambda \in \Lambda
\lambda \in 
                                                                                                                                                                                                                                         \min_{\substack{x \in X, y \\ s.t. \ G(x, y) \le 0 \\ y \in y \in Y \\ s.t. \ g(x, y) \le 0}} F(x, y) \quad upper letter f(x, y)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    upper level\\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   . lower level\\
                                                                                                                                                                                                                                                                   (1)
                                                                                                                                                                                                                                         \begin{array}{l} \textit{up-per} \\ \textit{puter} \\ \textit{lower} \\ \textit{l
                                                                                                                                                                                                                                         R(\lambda) = \int \mathcal{L}(y, f_{\lambda}(x)) dP(x, y)
\begin{array}{c} \kappa(\lambda) = \\ (2) \\ f_{\lambda} : \stackrel{?}{\underset{n}{\longrightarrow}} \\ \cap F \rightarrow \\ , \lambda \in \\ \Lambda \\ P(x,y) \\ f_{\bar{\Lambda}}(x) \end{array}
```