```
\begin{array}{l} A \\ |A| = \\ N \\ A = \\ \{a_1, a_N\} \in \\ X^N \\ f_g(A) \\ g : \\ Y \rightarrow \\ Y \rightarrow \\ g_0 \in \\ Y \\ f_g \\ f_g(\{a_1, a_k\}) = g(a_k, f(\{a_1, a_{k-1}\})) f_g(\emptyset) = g_0 \end{array}
\begin{array}{c} ?f \\ fg \\ g, g_0, A \\ yg_0 \\ i \leftarrow 1, , |A| \\ yg(A[i], y) \\ yg \\ g_0 \end{array}
g^{\max}(x,y) = \max(x,y)g_0^{\max} = -\infty g^{\mathrm{sum}}(x,y) = x + yg_0^{\mathrm{sum}} = 0
\overset{T_g}{g}
T(N) = 1 + N[T_g + 1] = T_g \cdot N
```