```
= \{\emptyset\}
                              \{\{(\alpha_i, \beta_i)\}_{i \in k} \mid k \in \omega \setminus 1 \land \alpha_i \in \text{Ord} \setminus 1 \land \beta_i \in A_n \land |\{\beta_i\}_{i \in k}| = k\}
                             A \setminus \{\emptyset\}
            B_0
                              \{\emptyset\}
                      = \{\{(\alpha_i,\beta_i)\}_{i\in k}\mid k\in\omega\setminus 1 \land \alpha_i\in \mathrm{Ord} \land \beta_i\in B_n \land |\{\beta_i\}_{i\in k}|=k\}
                     =\bigcup_{n\in\omega}(A_n)
       a \ : \ A \ \rightarrow \ \bigcup \left( \{ \{\alpha_i\}_{i \in n, \alpha_i \in \mathrm{Ord}} \} \right)
a(X) : X \mapsto \{X' \mid \exists X'' \in (\text{Ord} \setminus 1)[(X'', X') \in X]\}
                                     \hat{X}'(\nexists X'' \in a(X)[X' \prec X''])
       \overline{b}: A' \rightarrow A
\overline{b}(X) : X \mapsto \hat{X}'(\nexists X'' \in a(X)[X'' \prec X'])
c_X(Y) : A^2 \rightarrow \text{Ord}
c_X(Y) : (X,Y) \mapsto \hat{X}'((X',Y) \in X)
                                                                                                                                   [Y = \varnothing]
                                                                                                                                   [X = \emptyset \land Y \neq \emptyset]
                                \begin{cases} b(X) < b(Y) \\ c_X(b(X)) < c_Y(b(Y)) \end{cases}
                                                                                                                                   [X \neq \emptyset \land Y \neq \emptyset \land b(X) \neq b(Y)]
                                                                                                                                   [X \neq \emptyset \land Y \neq \emptyset \land b(X) = b(Y) \land c_X(b(X)) \neq c_Y(b(Y))]
                                   X \setminus \{(c_X(b(X)),b(X))\} \prec Y \setminus \{(c_Y(b(Y)),b(Y))\} \quad [X \neq \emptyset \land Y \neq \emptyset \land b(X) = b(Y) \land c_X(b(X)) = c_Y(b(Y))]
d(X) : X \mapsto \{(X', X'') \mid (X', X'') \in X \land X' > 0\}
                                                                                                                                     [c_X(\emptyset) \in \text{Lim} \cup 1]
                                        d(X \setminus \{(c_X(\emptyset), \emptyset)\} \cup \{(\hat{\alpha}(\alpha + 1 = c_X(\emptyset)), \emptyset)\}) \quad [c_X(\emptyset) \in Succ]
                                                                 [X = \varnothing]
                                                                 [e(X) \neq X]
                                                 [e(X) \neq X]
[e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in Succ]
                                         f(\overline{b}(X))  [e(\overline{b}(X)) = \overline{b}(X) \land c_X(\overline{b}(X)) \in Succ]
                                         c_X(\overline{b}(X)) [c_X(\overline{b}(X)) \in \text{Lim}]
                 : A \times Ord \rightarrow
                                                                                                                                                                                                             [X = \varnothing]
                                                                                                                                                                                                             [e(X) \neq X]
                                                            d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X))\} \cup \{(\hat{\beta}(\beta + 1 = c_X(\overline{b}(X))), \overline{b}(X)), (\alpha, e(\overline{b}(X)))\})
                                                                                                                                                                                                             [e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in Succ]
                                                           d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X))\} \cup \{(\hat{\beta}(\beta+1=c_X(\overline{b}(X))), \overline{b}(X)), (1, g(\overline{b}(X), \alpha))\}) \quad [e(\overline{b}(X)) = \overline{b}(X) \land c_X(\overline{b}(X)) \in Succ]
                                                          d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X))\} \cup \{(\alpha, \overline{b}(X))\})
                                                                                                                                                                                                             [c_X(\overline{b}(X)) \in \text{Lim}]
                                          X \setminus \{(c_X(\emptyset), \emptyset)\} \quad [\emptyset \in a(X)]
   \varphi : A
                                   → Ord
                                                                                                                                                                                     [X = \varnothing]
                                                                                                                                                                                     [a(X) = \{\emptyset\}]
                                               \operatorname{enum}(\{\alpha \mid \forall \beta < f(h(X))[\alpha = \varphi d(g(h(X), \beta) \cup \{(\alpha, \emptyset)\})]\})(c_X(\emptyset)) \quad [f(h(X)) > 2]
                                               enum({\alpha \mid \alpha = \varphi g(h(X), \alpha)})(c_X(\emptyset))
                                                                                                                                                                                     [f(h(X)) = 2]
  \{(\alpha_i, \underline{i})\}_{i \in n, n \in \omega} =
                                            (\alpha_i)_{i\in n,n\in\omega}
\{(\alpha_i,X_i)\}_{i\in n,n\in\omega} \quad = \quad
```