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For a predicate \varphi(x), I define \hat{x}\varphi(x) to be the x that satisfies \varphi(x); it is undefined if there's more then one such x. Then,
                                   = \{\{(\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 = \bigcup_{n \in \omega} (A_n)
A' = A \setminus \{\emptyset\}
   B_{n+1} = \{\{(\alpha_i, \beta_i)\}_{i \in k} \mid k \in \omega \setminus 1 \land \alpha_i \in \operatorname{Ord} \land \beta_i \in B_n \land |\{\beta_i\}_{i \in k}| = k\}
               B = \bigcup_{n \in \omega} (A_n)
                a : A \rightarrow \bigcup (\{\{\alpha_i\}_{i \in n, \alpha_i \in Ord}\})
 a(X) : X \mapsto {X' \mid \exists X'' \in (\text{Ord} \setminus 1)[(X'', X') \in X]}
                b : A' \rightarrow A
  b(X) : X \mapsto \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 Ord
 X < Y \iff \begin{cases} \bot & [Y = \varnothing] \\ \top & [X = \varnothing \land Y \neq \varnothing] \\ b(X) < b(Y) & [X \neq \varnothing \land Y \neq \varnothing \land b(X) \neq b(Y)] \\ c_X(b(X)) < c_Y(b(Y)) & [X \neq \varnothing \land Y \neq \varnothing \land b(X) = b(Y) \land c_X(b(X)) \neq c_Y(b(Y))] \\ X \setminus \{(c_X(b(X)), b(X))\} < Y \setminus \{(c_Y(b(Y)), b(Y))\} & [X \neq \varnothing \land Y \neq \varnothing \land b(X) = b(Y) \land c_X(b(X)) = c_Y(b(Y))] \end{cases}
  d(X) : X \mapsto \{(X', X'') \mid (X', X'') \in X \land X' > 0\}
\begin{array}{cccc} e & : & A & \to & A \\ \\ e(X) & : & X & \mapsto & \begin{cases} X & [c_X(\varnothing) \in \operatorname{Lim} \cup 1] \\ \\ d(X \setminus \{(c_X(\varnothing),\varnothing)\} \cup \{(\hat{\alpha}(\alpha+1=c_X(\varnothing)),\varnothing)\}) & [c_X(\varnothing) \in \operatorname{Succ}] \end{cases} \end{array}
               f: A \rightarrow Ord \cup \{Ord\}
f(X) : X \mapsto \begin{cases} 0 & [X = \varnothing] \\ 1 & [e(X) \neq X] \\ c_X(\overline{b}(X)) & [c_X(\overline{b}(X)) \in \text{Lim}] \\ \text{Ord} & [e(\overline{b}(X)) \neq \overline{b}(X)] \end{cases}
                                                                                                  f(\overline{b}(X))  [e(\overline{b}(X)) = \overline{b}(X)]
g(X,\alpha) : (X,\alpha) \mapsto \begin{cases} \varnothing \\ e(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)))\} \} \end{cases} [e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(b(X)) \in \text{Succ}_1 \\ 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))\} \} [e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in \text{Succ}_1 \\ 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))\} \} [e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in \text{Succ}_1 \\ 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))\} \} [e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in \text{Succ}_1 \\ 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))\} \} [e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in \text{Succ}_1 \\ 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))\} \} [e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in \text{Succ}_1 \\ 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))\} \} [e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in \text{Succ}_1 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X))\} \cup \{(a, \overline{b}(X))\} \} ] (e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in \text{Succ}_1 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X)), \overline{b}(X)\} ) = (e(\overline{b}(X)) \neq \overline{b}(X) \land c_X(\overline{b}(X)) \in \text{Succ}_1 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X)\}) \in \text{Succ}_1 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X)), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X), \overline{b}(X), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X), \overline{b}(X), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c_X(\overline{b}(X)), \overline{b}(X), \overline{b}(X), \overline{b}(X)\}) \in \text{Succ}_2 \\ d(X \setminus \{(c
                            g: A \times Ord \rightarrow A
h(X) : X \rightarrow X
\begin{cases} \emptyset & [X = \emptyset] \\ X \setminus \{(c_X(\emptyset), \emptyset)\} & [\emptyset \in a(X)] \\ X & [\emptyset \notin a(X)] \end{cases}
         \varphi : A \longrightarrow \operatorname{Ord}
\varphi X : (X,\alpha) \mapsto \begin{cases} 1 \\ \omega^{c_X(\varnothing)} \end{cases}
                                                                                                                                                                                                                                                                                                                                                                                                                   [X = \varnothing]
                                                                                                                                                                                                                                                                                                                                                                                                                   [a(X) = \{\emptyset\}]
                                                                                                              \operatorname{enum}(\{\alpha \mid \forall \beta < f(h(X))[\alpha = \varphi(g(h(X), \beta) \cup \{(\alpha, \emptyset)\})]\})(c_X(\emptyset)) \quad [f(h(X)) \in \operatorname{Ord}]
                                                                                                                                                                                                                                                                                                                                                                                                                   [f(h(X)) = Ord]
                                                                                                           enum(\{\alpha \mid \alpha = \varphi g(h(X), \alpha)\})(c_X(\emptyset))
                                                                 \underline{\alpha} = \{(\alpha, 0)\}
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 $\{(\alpha_i, \underline{i})\}_{i \in n, n \in \omega} = (\alpha_i)_{i \in n, n \in \omega}$

 $\{(\alpha_i, X_i)\}_{i \in n, n \in \omega} =$