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Harjoitus 8

1. Let $<$ be a well-ordering of $\xi^{\leq \kappa} = \{\eta : \alpha \rightarrow \xi \mid \alpha \leq \kappa\}$ such that if $\eta \subsetneq \tau$, then $\eta < \tau$. Suppose that for all $\eta \in \xi^{\leq \kappa}$ there are a_η such that if $\alpha = \text{dom}(\eta)$, then $a_\eta \downarrow_{\cup_{\beta < \alpha} a_{\eta \upharpoonright \beta}} \cup_{\tau < \eta} a_\tau$. For any $\eta \in \xi^{\leq \kappa}$, let $A_\eta = \{\tau \in \xi^{\leq \kappa} \mid \eta \not\subseteq \tau\}$. Show that if $\alpha = \text{dom}(\eta)$, then $a_\eta \downarrow_{\cup_{\beta < \alpha} a_{\eta \upharpoonright \beta}} \cup_{\tau \in A_\eta} a_\tau$.

2. Exercise 9.4 (i) ja (iii).