

FORCING HINTS
DAY 1

Problem 6. Given a bijection $F : \mu \rightarrow V_\alpha$, where $\alpha, \mu \in \text{On}$, define

$$E_F = \{\langle \eta, \xi \rangle \in \mu \times \mu \mid F(\eta) \in F(\xi)\}.$$

Show the map $F \mapsto E_F$, restricted to bijections F , is injective.

Problem 7. There are surjections $g_\alpha : \kappa \rightarrow \alpha$, for $\alpha < \kappa^+$.

Problem 8. Construct the f_α inductively; you'll need $\omega \setminus \text{range}(f_\alpha)$ to be infinite!

Problem 9. First show you can assume the order type of $(\kappa, <)$ is just κ . Then start with the case κ regular.