FORCING HINTS
FOR WEEKEND WARRIORS

Problem 2. The first part is easy if you assume Problem 8 from Day 1.

Problem 3. If S isn't disjoint from a large rectangle, find a subset of ω that is almost contained in uncountably many sections of S.

Problem 5. Look at atoms.

Problem 6. Assume $\mathrm{cc}(\mathbb{P}) = \kappa$, and $\mathrm{cf}(\kappa) < \kappa$. Follow the outline below:

- Let $\alpha(p) = \sup\{|A| : A \subseteq \mathbb{P}, (\forall q \in A) q \leq p$, and A is an antichain$\}$. Show $D = \{p \in \mathbb{P} : \alpha(p) < \kappa\}$ is dense.
- Show $\sup\{\alpha(p) : p \in M\} = \kappa$ when $M \subseteq D$ is a maximal antichain.
- Construct an antichain of size κ in $\mathbb{P}$.