Esercizio 1. Let $a=\langle a_i:i\in I\rangle$ be an (infinite) *A*-indiscernible sequence and let $I\subseteq J$ with $|J|\leq \kappa$. Then there is an *A*-indiscernible sequence $c=\langle c_i:i\in J\rangle$ such that $c_{\restriction I}=a$.

Esercizio 2. Let $a \equiv_A b$ and let $q(x) = \operatorname{tp}(a/A) = \operatorname{tp}(b/A)$. Prove that if q(x) extends to a global A-invariant type $p(x) \in S(\mathcal{U})$ then there is a sequence $c = \langle c_i : i < \omega \rangle$ such that a, c and b, c are both sequences of A-indiscernibles.

Esercizio 3. Prove that the following are equivalent

- 1. \mathcal{D} is invariant over every model M containing A;
- 2. $\mathcal{D} \in \operatorname{acl}^{\operatorname{eq}} A$.