Computational Complexity - Scrimmage II

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1 Problems

1. Prove that an infinite set is decidable if and only if it can be enumerated in increasing order by a one-to-one computable function.
2. Prove : $L_u \leq_m K$.
3. Show that there must exist a program e such that $W_e = \{e^2\}$.
4. Given a collection C of c.e. sets. Is C regular?
5. Prove $A \leq_m B \Rightarrow A \leq_T B$.