

Logic and Computation I, Autumn 2024

Exercise 01-06

Due Date:

Exercise 1.6.1

Prove that there exist two disjoint CE sets $A, B \subset \mathbb{N}$ with the following property.

There is no computable set C such that $A \subset C$ and $B \cap C = \emptyset$.

(Such A and B are said to be **computably inseparable**)

Solution: