CR11 - Graded exercise sheet - Week 2

Exercise 2.1: /10

Let A be a non-c.e. set. Use the finite extension method to prove that there exists a set B which is not A-c.e. and such that A is not B-c.e.

Recall that $W_e = \operatorname{dom} \Phi_e$.

Exercise 2.2: /10

Show that $\mathtt{Tot} = \{e : W_e = \mathbb{N}\}\ \text{is}\ \Pi_2^0\text{-complete}.$