A FLINT machine is a Turing machine that does not accept the string “ben”.
A BOSTON machine is a Turing machine that does accept the string “ben”.
Note that for both machines Σ is the english alphabet.

Consider the language

\[ HOMETOWN = \{ \langle F, B \rangle \mid F \text{ is a FLINT machine and } B \text{ is a BOSTON machine} \} \]

Prove that \( \overline{A_{TM}} \leq_m HOMETOWN \).