



- (ii) Check if this product transition system satisfies the persistence property “eventually forever  $\neg F$ ”. (Remember that  $F$  is the set of accepting states of  $\overline{\mathcal{A}}$ .) In case the product satisfies the property, argue why this is the case. Otherwise, give a path in the product that shows the violation of the persistence property and give the corresponding path in  $TS_{Sem}$  that shows the violation of  $P_{live}$ .