
Problem 7.17. Let $UNARY\text{-}SSUM$ be the subset sum problem in which all numbers are represented in unary. Why does the NP-completeness proof for $SUBSET\text{-}SUM$ fail to show $UNARY\text{-}SSUM$ is NP-complete? Show that $UNARY\text{-}SSUM \in P$.

Part a. Why does the NP-completeness proof for $SUBSET\text{-}SUM$ fail to show $UNARY\text{-}SSUM$ is NP-complete?

Part b. Show that $UNARY\text{-}SSUM \in P$.

Proof. □