Group Problem Solving

How can you use MWIS to determine which towers should transmit? In other words, given a bunch of towers and corresponding packets, how can you create a graph for input to MWIS? What are the vertices $V$ and edges $E$? What is the weighting function $w$?
Group Problem Solving

Fill in the blanks, then explain why your answers are correct in each case (preferably using a proof...try proof by contradiction)

1. If \( v_n \in S \), then _____ is MWIS on the graph _____

2. If \( v_n \notin S \), then _____ is MWIS on the graph _____