Graph Algorithm Design

For each of the following scenarios, write a brief description for an algorithm for finding the MST in an undirected, connected graph G.

- (a) If all edges have edge weight 1. Hint: Runtime is $\mathcal{O}(\mathcal{V}+\mathcal{E})$
- (b) If all edges have edge weight 1 or 2. Hint: Use your algorithm from part (a)