

HANDLEMERGE VERTEX(v_i)

1. **if** $helper(e_{i-1})$ is a merge vertex
2. **then** Insert the diagonal connecting v_i to $helper(e_{i-1})$ in \mathcal{D} .
3. Delete e_{i-1} from \mathcal{T} .
4. Search in \mathcal{T} to find the edge e_j directly left of v_i .
5. **if** $helper(e_j)$ is a merge vertex
6. **then** Insert the diagonal connecting v_i to $helper(e_j)$ in \mathcal{D} .
7. $helper(e_j) \leftarrow v_i$