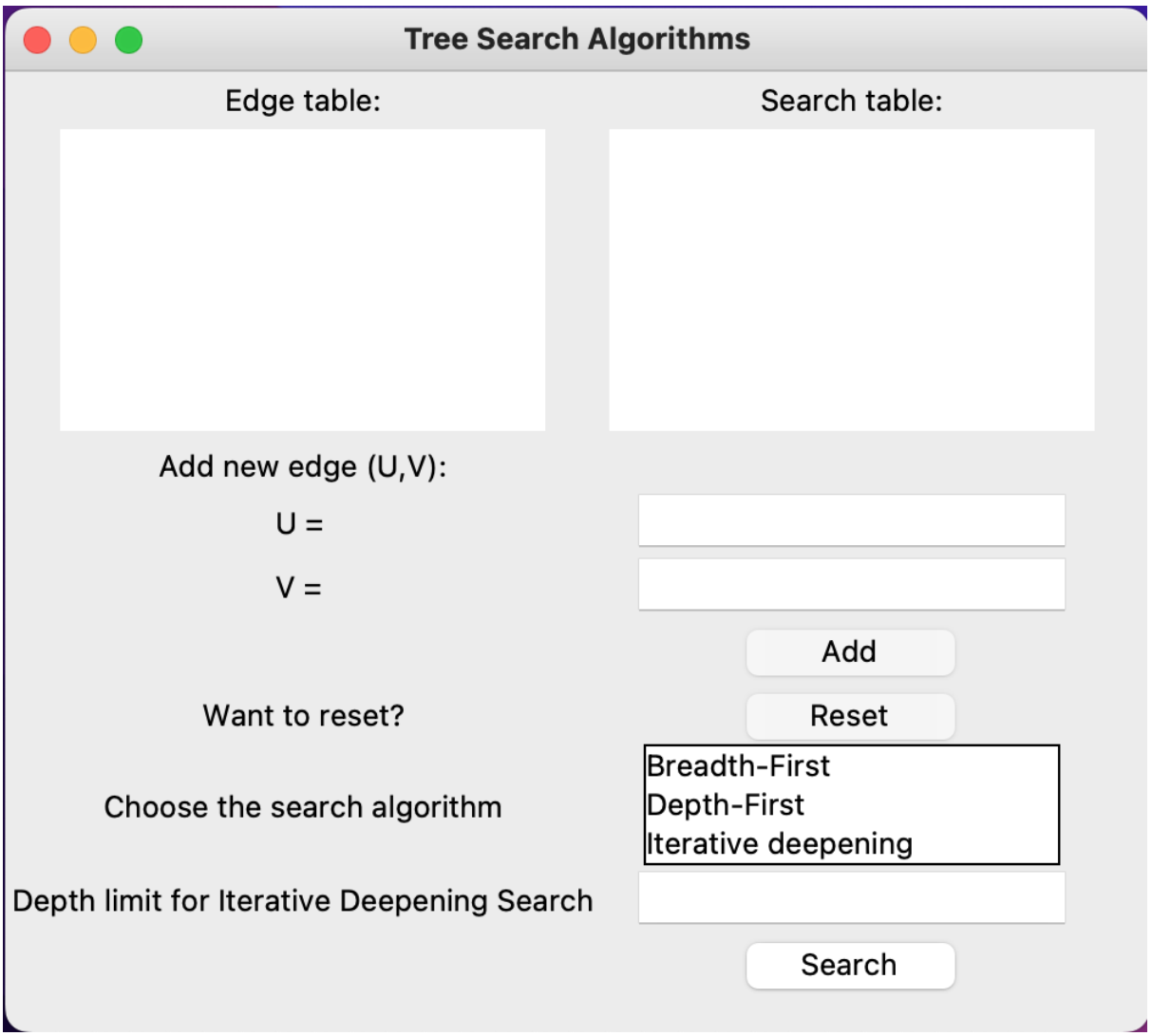
INSTRUCTION

This is the window for searching a tree with three algorithms: **Breadth-First Search (BFS), Depth-First Search (DFS), and Iterative Deepening Search (IDS)**.

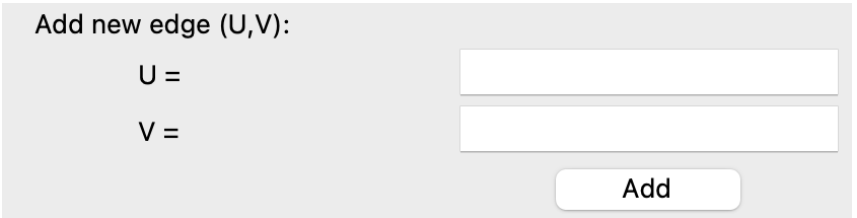


STEP 1: Adding an edge **(U,V)** into a tree by entering in the **U** and **V** text boxes and clicking button 

. Then, it will display the edge in the ***Edge Table*** text area as **U - - > V**

Note:

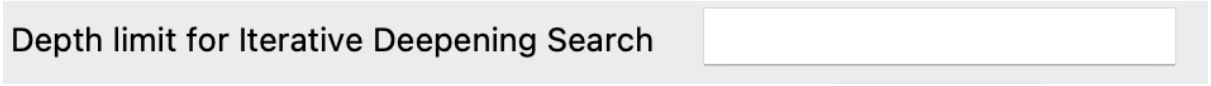
- The U node in the first edge is chosen to be the root of the tree
- You have the input both two vertices to add an edge
- All the inputs have to be **integers**



STEP 2: After adding edges to the graph, the next step is search. You can use either one of three search methods by clicking the option in the list box.

Then, click on the button  to search.

If you choose the **Iterative deepening**, you have to enter the depth limit for the search

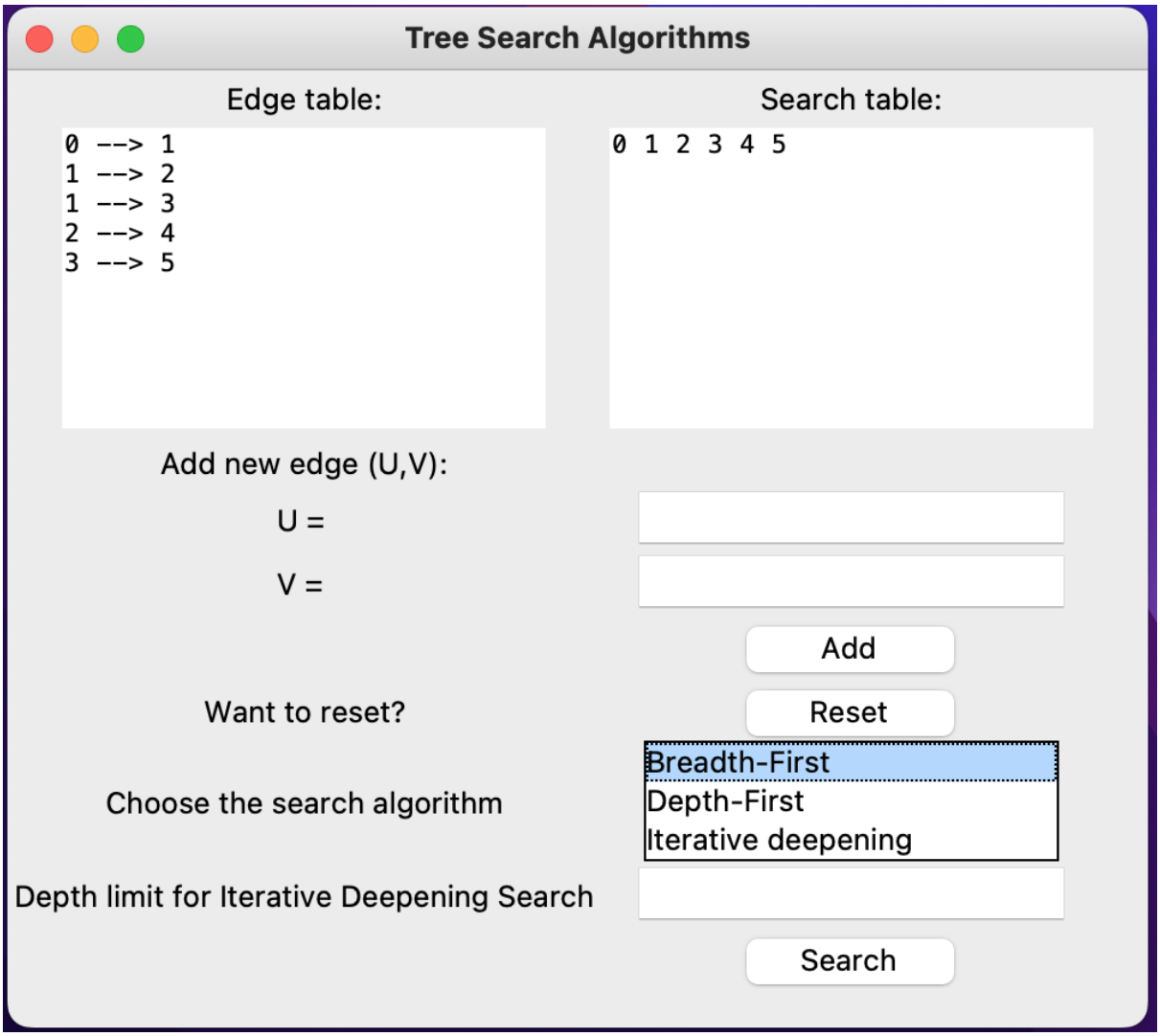


Note: If the tree is empty, the program cannot search

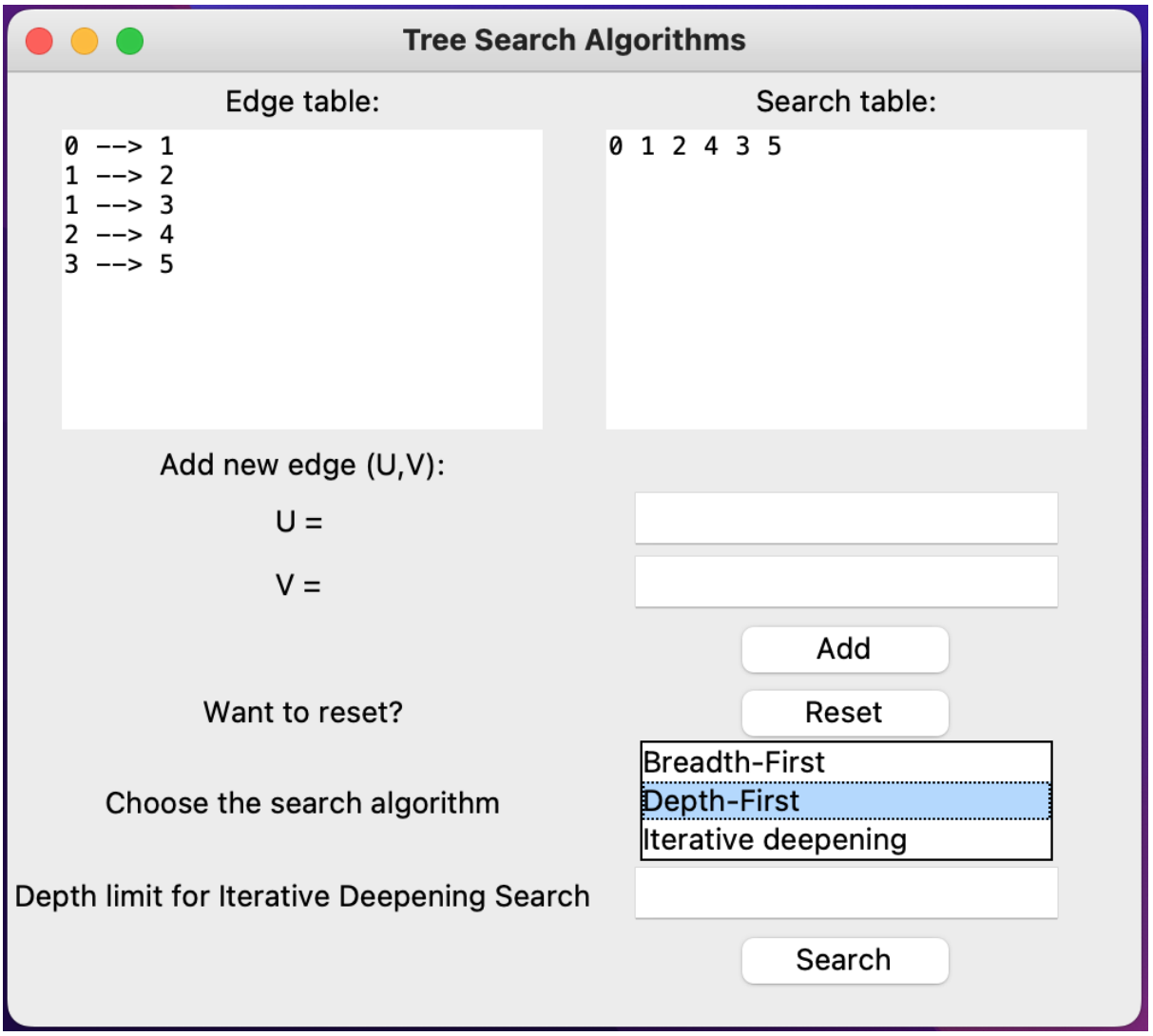
STEP 3: If you want to reset the program, click the button 

Examples:

1) **Search with BFS**



2) Search with DFS



3) Search with IDS (depth limit = 2)