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).

Tree Search Algorithms		
Edge table:	Search table:	
Add new edge (U,V):		
U =		
V =		
	Add	
Want to reset?	Reset	
	Breadth-First	
Choose the search algorithm	Depth-First Iterative deepening	
Depth limit for Iterative Deepening Search	[13.25 23655	
,	Search	

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

Add new edge (U,V):	
U =	
V =	
	Add

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.

Choose the search alg	orithm	Breadth-First Depth-First Iterative deepening	
Then eliels on the hutten	Search	to occupi	

Then, click on the button Search to search.

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

Depth limit for Iterative Deepening Search	

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

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

Reset

Examples:

1) Search with BFS

Tree Search Algorithms	
Edge table:	Search table:
0> 1 1> 2 1> 3 2> 4 3> 5	0 1 2 3 4 5
Add new edge (U,V):	
U =	
V =	
	Add
Want to reset?	Reset
Choose the search algorithm	Breadth-First Depth-First Iterative deepening
Depth limit for Iterative Deepening Searc	h
	Search

2) Search with DFS

Tree Search Algorithms	
Edge table:	Search table:
0> 1 1> 2 1> 3 2> 4 3> 5	0 1 2 4 3 5
Add new edge (U,V):	
U =	
V =	
	Add
Want to reset?	Reset
Choose the search algorithm	Breadth-First Depth-First Iterative deepening
Depth limit for Iterative Deepening Searc	ch
	Search

3) Search with IDS (depth limit = 2)

Tree Search Algorithms		
Edge table:	Search table:	
0> 1 1> 2 1> 3 2> 4 3> 5	0 1 2 3	
Add new edge (U,V):		
U =		
V =		
	Add	
Want to reset?	Reset	
Choose the search algorithm	Breadth-First Depth-First Iterative deepening	
Depth limit for Iterative Deepening Search	2	
	Search	