**Boundary Condition**

**Main function condition: (Sample)**

1.Order of the tree:

Enter the order of B Tree:

**Sample input 1:** 4

Sample output: Continues to menu driven program

**Sample input 2:** 1

**Sample output:** Order of b tree can't be lesser than 1

**Sample input 3:** k

**Sample output:** Invalid input. Please enter an integer.

2.Menu driven part of code:

Menu:

1. Insert

2. Delete

3. Search

4. Display

5. Exit

Enter your choice:

**Sample input 1:**8

**Sample output:** Enter a valid choice

**Sample input 2:** o

**Sample output:** Invalid choice, enter a integer

**(1) Insertion cases:**

1.Insert a element into B-Tree: (choice==1)

**-Any integer input**

**Sample Input 1: (positive number)**

Enter number to insert: 1

**Sample Input 2: (negative number)**

Enter number to insert: -8

**Sample Input 3: (zero)**

Enter number to insert: 0

**Output for all sample input:**

Insertion Successful!

**-Any character input**

**Sample input 1:**

Enter number to insert: a

**Sample Output:**

Invalid input. Please enter an integer.

**(2) Deletion Cases:**

Enter a number to delete: (choice==2)

**-Element that exists in B-Tree**

**Sample Input 1:**

Enter a number to delete: 1

**Sample Input 2:**

Enter a number to delete: -8

**Sample output for all inputs:**

<input element> was successfully deleted from the tree

**-Element doesn’t exist in B-Tree**

**Sample Input:**

Enter a number to delete: 56

56 not found in the Btree

**- B-Tree is empty**

**Sample Ouput :**

**B-Tree Empty**

**(3) Search Cases:**

Enter a number to search: (choice==3)

**-Element that exists in B-tree**

Sample Input 1:

Enter a number to search: 45(Positive number)

Sample Input 2:

Enter a number to search: -45(negative number)

Sample Input 3:

Enter a number to search: 0

Output for all sample input:

<Input Number> found in B-tree

**-Element that doesn’t exist in B-tree**

Sample Input:

Enter a number to search: 54

Sample Output:

54 not found

**-Tree is Empty**

Sample Output:

BTree Empty

**(4) Display Cases:**

To Display B-Tree: (choice==4)

**-Tree is not Empty**

Sample Output:

Displays the B-Tree

-**Tree is Empty**

Sample Output:

B-Tree Empty

**(5) Exit Case**: (choice==5)

Sample output:

Exiting... Thank You!