**Output:**

**admin@chaitanya:~/Desktop/dsa$ g++ b6.cpp**

**admin@chaitanya:~/Desktop/dsa$ ./a.out**

**-------------------------**

**Binary Search Tree Menu**

**-------------------------**

**1. Insert a new node**

**2. Find the number of nodes in the longest path from the root**

**3. Find the minimum value in the tree**

**4. Swap left and right pointers at every node**

**5. Search for a value**

**6. Quit**

**Enter your choice: 1**

**Enter the value to insert: 11**

**-------------------------**

**Binary Search Tree Menu**

**-------------------------**

**1. Insert a new node**

**2. Find the number of nodes in the longest path from the root**

**3. Find the minimum value in the tree**

**4. Swap left and right pointers at every node**

**5. Search for a value**

**6. Quit**

**Enter your choice: 1**

**Enter the value to insert: 12**

**-------------------------**

**Binary Search Tree Menu**

**-------------------------**

**1. Insert a new node**

**2. Find the number of nodes in the longest path from the root**

**3. Find the minimum value in the tree**

**4. Swap left and right pointers at every node**

**5. Search for a value**

**6. Quit**

**Enter your choice: 2**

**Number of nodes in the longest path from the root: 2**

**-------------------------**

**Binary Search Tree Menu**

**-------------------------**

**1. Insert a new node**

**2. Find the number of nodes in the longest path from the root**

**3. Find the minimum value in the tree**

**4. Swap left and right pointers at every node**

**5. Search for a value**

**6. Quit**

**Enter your choice: 3**

**Minimum value in the tree: 11**

**-------------------------**

**Binary Search Tree Menu**

**-------------------------**

**1. Insert a new node**

**2. Find the number of nodes in the longest path from the root**

**3. Find the minimum value in the tree**

**4. Swap left and right pointers at every node**

**5. Search for a value**

**6. Quit**

**Enter your choice: 4**

**Pointers swapped successfully.**

**-------------------------**

**Binary Search Tree Menu**

**-------------------------**

**1. Insert a new node**

**2. Find the number of nodes in the longest path from the root**

**3. Find the minimum value in the tree**

**4. Swap left and right pointers at every node**

**5. Search for a value**

**6. Quit**

**Enter your choice: 5**

**Enter the value to search for: 13**

**Value not found in the tree.**

**-------------------------**

**Binary Search Tree Menu**

**-------------------------**

**1. Insert a new node**

**2. Find the number of nodes in the longest path from the root**

**3. Find the minimum value in the tree**

**4. Swap left and right pointers at every node**

**5. Search for a value**

**6. Quit**

**Enter your choice: 6**

**Thanks for using this program!**

**admin@chaitanya:~/Desktop/dsa$**