**TO IMPLEMENT IS BST**

**SOURCE CODE**

#include <iostream>

#include <climits>

using namespace std;

bool isBSTUtil(int arr[], int idx, int min\_val, int max\_val, int N)

{

if (idx > N)

return true;

if (arr[idx] <= min\_val || arr[idx] >= max\_val)

return false;

return isBSTUtil(arr, 2 \* idx, min\_val, arr[idx], N) && isBSTUtil(arr, 2 \* idx + 1, arr[idx], max\_val, N);

}

bool isBST(int arr[], int N)

{

return isBSTUtil(arr, 1, INT\_MIN, INT\_MAX, N);

}

int main()

{

int T;

cin >> T;

while (T--)

{

int N;

cin >> N;

int nodes[N + 1];

for (int i = 1; i <= N; ++i)

{

cin >> nodes[i];

}

if (isBST(nodes, N))

cout << "True\n";

else

cout << "False\n";

}

return 0;

}

**INPUT:**

5

11

92 10 963 5 334 928 973 2 9 263 860

9

156 153 6947 149 154 1761 7230 9 152

4

40 49 87 651

5

449 792 594 688 618

15

736 43 882 3 460 741 887 0 42 247 465 739 844 886 888

**OUTPUT:**

False

True

False

False

True