//cpp program for Binary search Tree

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#include <iostream>
using namespace std;
// Function to perform binary search
int binarySearch(int arr[], int left, int right, int target) {
    while (left <= right) {
        int mid = left + (right - left) / 2;
  // Check if target is present at mid
        if (arr[mid] == target)
            return mid;
 // If target is greater, ignore left half
        if (arr[mid] < target)
            left = mid + 1;
        else
            right = mid - 1;
    }
    return -1;
}

int main() {
    int arr[] = {2, 5, 8, 12, 16, 23, 38, 56, 72, 91};
    int n = sizeof(arr) / sizeof(arr[0]);
    int target = 23;
   int result = binarySearch(arr, 0, n - 1, target);
  if (result != -1)
```

```
        cout << "Element found at index " << result << endl;
    else
        cout << "Element not found in the array" << endl;
 return 0;
}
```