Two Pointer Algorithm Template

C++ Code Implementation:

```
#include <iostream>
#include <vector>
using namespace std;
void twoPointer(vector<int>& nums, int target) {
    int i = 0, j = nums.size() - 1; // i -> left pointer, j -> right pointer
    while (i < j) {
        int sum = nums[i] + nums[j];
        if (sum == target) {
            cout << "Pair found: (" << nums[i] << ", " << nums[j] << ")" << endl;</pre>
            return;
        }
        else if (sum < target) {</pre>
            i++; // Move left pointer to increase sum
        else {
            j--; // Move right pointer to decrease sum
    }
    cout << "No pair found" << endl;</pre>
}
int main() {
    vector<int> nums = \{1, 2, 3, 5, 6, 8, 9\};
    int target = 10;
    twoPointer(nums, target);
    return 0;
}
```

Time Complexity:

```
Best Case: O(1) (Pair found early)Average Case: O(N)Worst Case: O(N) (Iterates through the array)
```