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| **Pair with Given Sum in C++** | |
| #include <iostream>  #include <vector>  using namespace std;  bool pairWithGivenSum(const vector<int>& arr, int x) {  int left = 0, right = arr.size() - 1;  while (left < right) {  if (arr[left] + arr[right] == x) {  return true;  } else if (arr[left] + arr[right] > x) {  right--;  } else {  left++;  }  }  return false;  }  int main() {  vector<int> arr = {10, 7, 8, 20, 12};  int x = 32;  cout << std::boolalpha << pairWithGivenSum(arr, x) << endl;  return 0;  } | Dry Run After Sorting Sorted array: {7, 8, 10, 12, 20} Target x = 32   | **left (val)** | **right (val)** | **Sum** | **Action** | | --- | --- | --- | --- | | 7 | 20 | 27 | Increase left | | 8 | 20 | 28 | Increase left | | 10 | 20 | 30 | Increase left | | 12 | 20 | 32 | 🎯 Match → return true |  ✅ Output: true |
| true | |