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| **Pair with given difference in C++** | |
| #include <iostream>  #include <algorithm>  #include <vector>  using namespace std;  void findPair(vector<int>& arr, int target) {  sort(arr.begin(), arr.end());  int i = 0;  int j = 1;  while (i < arr.size() && j < arr.size()) {  if (arr[j] - arr[i] == target) {  cout << arr[i] << " " << arr[j] << endl;  return;  } else if (arr[j] - arr[i] < target) {  j++;  } else {  i++;  }  }  cout << "-1" << endl;  }  int main() {  // Hardcoded input  vector<int> arr = {1, 7, 3, 10, 5, 6};  int target = 4;  // Call the findPair function to find the pair with given difference  findPair(arr, target);  return 0;  } | **Input:**  arr = {1, 7, 3, 10, 5, 6}  target = 4  **🔄 Step 1: Sort the array**  arr = {1, 3, 5, 6, 7, 10}  **🔄 Step 2: Two-pointer approach**  We use two pointers:   * i starts at 0 * j starts at 1 Goal: find any two elements such that arr[j] - arr[i] == target   **🧪 Tabular Dry Run:**   | **i** | **j** | **arr[i]** | **arr[j]** | **Difference** | **Action** | | --- | --- | --- | --- | --- | --- | | 0 | 1 | 1 | 3 | 2 | j++ | | 0 | 2 | 1 | 5 | 4 ✅ | Print 1 5, return |   **✅ Output:**  1 5 |
| 1 5 | |