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| **Pair with equal sum in C++** | |
| #include <iostream>  #include <unordered\_set>  #include <vector>  using namespace std;  bool sol(vector<int>& arr) {  unordered\_set<int> set;  for (int i = 0; i < arr.size(); i++) {  for (int j = i + 1; j < arr.size(); j++) {  int sum = arr[i] + arr[j];  if (set.count(sum)) {  return true;  } else {  set.insert(sum);  }  }  }  return false;  }  int main() {  vector<int> arr = {2, 9, 3, 5, 8, 6, 4};  bool ans = sol(arr);  cout << boolalpha << ans << endl;  return 0;  } | 🧾 ****Input**** arr = {2, 9, 3, 5, 8, 6, 4} 📋 ****Dry Run Table****  | **i** | **j** | **arr[i]** | **arr[j]** | **sum** | **Seen Sums Before** | **Is sum already in set?** | **Action** | | --- | --- | --- | --- | --- | --- | --- | --- | | 0 | 1 | 2 | 9 | 11 | {} | No | Insert 11 | | 0 | 2 | 2 | 3 | 5 | {11} | No | Insert 5 | | 0 | 3 | 2 | 5 | 7 | {11, 5} | No | Insert 7 | | 0 | 4 | 2 | 8 | 10 | {11, 5, 7} | No | Insert 10 | | 0 | 5 | 2 | 6 | 8 | {11, 5, 7, 10} | No | Insert 8 | | 0 | 6 | 2 | 4 | 6 | {5, 7, 8, 10, 11} | No | Insert 6 | | 1 | 2 | 9 | 3 | 12 | {5, 6, 7, 8, 10, 11} | No | Insert 12 | | 1 | 3 | 9 | 5 | 14 | ... | No | Insert 14 | | 1 | 4 | 9 | 8 | 17 | ... | No | Insert 17 | | 1 | 5 | 9 | 6 | 15 | ... | No | Insert 15 | | 1 | 6 | 9 | 4 | 13 | ... | No | Insert 13 | | 2 | 3 | 3 | 5 | 8 | Already seen | ✅ **Yes** → Return true |  |  ✅ ****Output**** true |
| Output:- true | |