## 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 =  $\{2, 9, 3, 5, 8, 6, 4\};$ 

cout << boolalpha << ans << endl;

bool ans = sol(arr);

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	<pre> ✓ Yes → Return true</pre>	

**Output** 

true

Output:true