C++ Program to Count of pairs in an Array whose sum is Prime

#include <bits/stdc++.h>

using namespace std;

bool isPrime(int num)

{

if (num == 0 || num == 1) {

return false;

}

for (int i = 2; i \* i <= num; i++) {

if (num % i == 0) {

return false;

}

}

return true;

}

int numPairsWithPrimeSum(int\* arr, int n)

{

int count = 0;

for (int i = 0; i < n; i++) {

for (int j = i + 1; j < n; j++) {

int sum = arr[i] + arr[j];

if (isPrime(sum)) {

count++;

}

}

}

return count;

}

int main()

{

int arr[100];

int n;

cout<<"n"<<endl;

cin>>n;

cout<<"array elements"<<endl;

for(int i=0;i<n;i++)

cin>>arr[i];

cout<<"output"<<endl;

cout << numPairsWithPrimeSum(arr, n);

return 0;

}

