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3 //Device name:LAPTOP-MGJPSU5N
4 //*****
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6 #include<iostream>
7 #include<bits/stdc++.h>
8 using namespace std;
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11 pair<int,int> hasPairWithSumX( const vector <int> v , int S){
12     vector<int> complements;
13     pair <int,int> pos ={-1,-1};
14     for (int element : v ){
15         pos.second++;
16         auto it = find(complements.begin(),complements.end(),element);
17         if (it != complements.end()){
18             pos.first = it-complements.begin();
19             return pos;
20         }
21         complements.push_back(S-element);
22     }
23     return pos;
24 }
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28 int main(){
29     vector<int> vect;
30     pair <int,int> result;
31     int n,x,sum;
32     cout << "enter the number of element in "<<endl;
33     cin >> n ;
34     cout << "enter the values to the array"<<endl;
35     while (n>0){
36         cin>>x ;
37         vect.push_back(x);
38         n--;
39     }
40     cout <<endl<< "enter the value of sum"<<endl;
41     cin >> sum;
42     result = hasPairWithSumX(vect ,sum);
43     if(result.first!=-1){
44         cout <<endl<<"Array["<<result.first<<"] + Array["<<result.second<<"] = " <<
sum;
45         cout <<endl<<vect[result.first]<<" + "<<vect[result.second]<<" = "<< sum;
46     }else{
47         cout << "Sum value not found";
48     }
49     return 0;
50 }
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