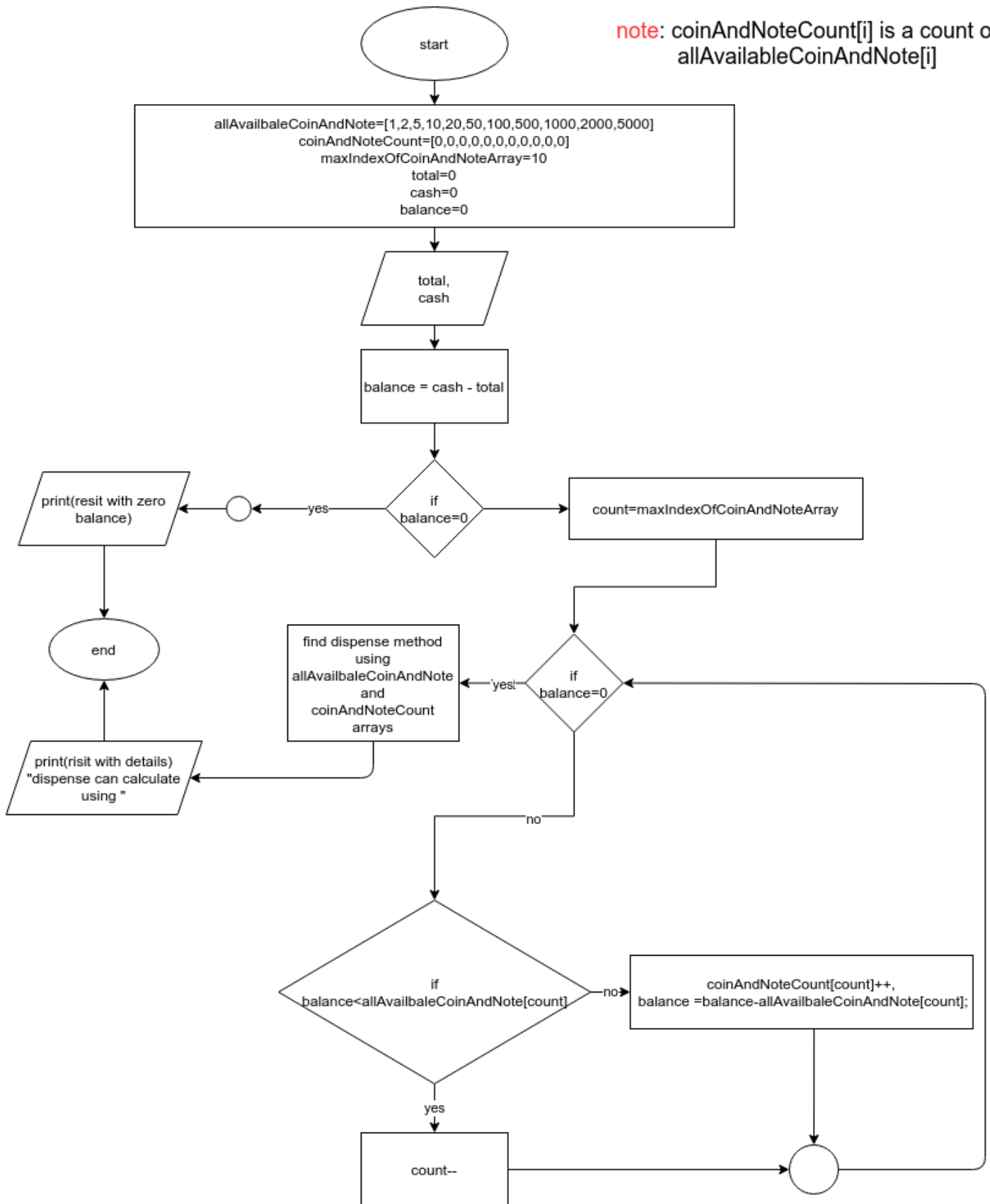


note: coinAndNoteCount[i] is a count of allAvailableCoinAndNote[i]



```
1  #include <iostream>
2  using namespace std;
3
4  // Student Number      => IM/2019/020
5  // Student Name        => Ishan Ravindu
6  // Assignment Number => 1
7  // Due Date             =>23rd August 2021
8
9  int main(){
10 const int allAvalbaleCoinAndNote[11] = {1,2,5,10,20,50,100,500,1000,2000,5000};
11 int coinAndNoteCount[11]={0,0,0,0,0,0,0,0,0,0,0};
12 const int maxIndexofCoinAndNoteArray = sizeof(allAvalbaleCoinAndNote)/sizeof(allAvalbaleCoinAndNote[0]) - 1;
13 int total ;
14 int cash;
15 int balance;
16
17 while(true){
18     cout <<"Enter Bill Total" <<endl;
19     cin >> total;
20     if(total>0){
21         break;
22     }
23     cout<< "Error (enter positive number)" << endl;
24 }
25
26
27 while (true){
28     cout << "Enter Cash "<<endl;
29     cin >> cash;
30     if(cash>=total){
31         break;
32     }else{
33         cout<< "Error (enter price must more than or equal to bill total)" << endl;
34     }
35 }
36
37 balance = cash - total;
38
39 if (balance==0){
40     // resipt section
41     cout<<endl;
42     cout << "*****Bill*****"<<endl;
43     cout<<endl;
44     cout <<"Total    = Rs:" <<total <<endl;
45     cout << "Cash     = RS:" << cash <<endl;
46     cout <<"Balance = Rs:0" <<endl;
47     cout<<endl;
48     cout << "*****"<<endl;
49     // end of resipt section
50 }else{
51     int count = maxIndexofCoinAndNoteArray;
52     while(true){
53         if(balance == 0 ){
54             // resipt section
55             cout<<endl;
56             cout << "#####Bill#####"<<endl;
57             cout<<endl;
58             cout <<"Total    = Rs:" <<total <<endl;
59             cout << "Cash     = RS:" << cash <<endl;
60             cout <<"Balance = Rs:"<<cash-total <<endl;
61             cout<<endl;
62             // number of coin and note in resipt
63             cout <<"-----Number Of Coin And Notes-----"<<endl;
64             cout<<endl;
65             for(int i=0;i<=maxIndexofCoinAndNoteArray;i++){
66                 if(coinAndNoteCount[i]==0){
67                     continue;
68                 }
69                 cout<<"Rs:" << allAvalbaleCoinAndNote[i]<<"*";
70                 cout << coinAndNoteCount[i]<<endl;
71             }
72             cout<<endl;
73             cout <<"-----"<<endl;
74             //end- number of coin and note in resipt
75             cout << "#####"<<endl;
76             // end of resipt section
77             break;
78         }else{
79             if(balance<allAvalbaleCoinAndNote[count]){
80                 count--;
81                 continue;
82             }else{
83                 coinAndNoteCount[count]++;
84                 balance -=allAvalbaleCoinAndNote[count];
85             }
86         }
87     }
88 }
89 }
90 }
91
92 }
```