

 **Inheritance_2**

A class **bill** is inherited by two classes **cheque**, **cash** in **protected mode**.

bill class has two members **item_price**, **qty**.

1 The product of the two, 1. price of the item and 2. quantity will give us the **total bill**.

2 class **cheque** again has two members **cheque_no**, **cheque_amt**.

3 Write a member function to test whether the amount in the cheque clears the bill or not.

4 **if yes** put the word "**Clear**" **if no** put the balance amount as "**Balance=100**" (100 is an example).

5 Similarly class **cash** has 4 data members for the number of **notes of 500,100,10,1**.

6 **Total** is to be calculated from the notes and again **matched with the bill**.

7 If the bill is cleared with cash put the word "**Clear**" **if no** put the balance amount as "**Balance=100**" (100 is an example).

7 **Sample Input 1:**

8 1 // for cheque clearance

10 10 //item_price

10 10 //qty

9 1234 //cheque_no

80 // cheque_amt

10 **Sample Output 1:**

11 100 //bill [item_price*qty]

Balance=20 //pending=100-80=20

12 **Sample Input 1:**

2 //for cash payment

10 //item_price

13 10 //qty

0 //notes of 500

14 0 //notes of 100

10 //notes of 10

15 0 //notes of 1

16 **Sample Output 1:**

Clear

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ST2-PRACTICE

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to test end



proceed. The timer will pause up to 90 seconds for the tour.

Start tour

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Original code

C++



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```
25 ▼ {
26     protected:
27         int item_price,qty,bill;
28     public:
29         void get_bill();
30 };
31
32
33 class cheque:protected bill
34 ▼ {
35     public:
36     int cheque_no,cheque_amt;
37     void get_cheque_details()
38 ▼     {
39         cin>>item_price>>qty>>cheque_no>>cheque_amt;
40     }
41     void display()
42 ▼     {
43         bill=item_price*qty;
44         if(cheque_amt==0)
45 ▼         {
46             cout<<"Clear";
47         }
48         else
49 ▼         {
50             cout<<bill<<endl;
51             bill-=cheque_amt;
52             cout<<"Balance="<<bill;
53         }
54     }
55 };
56 class cash:protected bill
57 ▼ {
58     public:
59     int n1,n10,n100,n500;
60     void get_cash()
61 ▼     {
62
63         cin>>item_price>>qty>>n500>>n100>>n10>>n1;
64     }
65 ▼     void display()
66     {
67         int total=n1+n10+n100+n500;
68         cout<<item_price*qty<<endl<<"Clear".
```




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to test end



(You can submit any number of times)



 [Download sample test cases](#) *The input/output files have Unix line endings. Do not use Notepad to edit them on windows.*

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