

Smart Shopkeeper

Submitted Code

Language: C

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```
1 #include <stdio.h>
2 #include<math.h>
3 int main(void)
4 {
5
6     int tc,i,temp1,a[20],count,price,temp,count1,expp,mul=0,b[20],tt;
7
8     scanf("%d\n",&tc);
9     while(tc!=0)
10    {
11        scanf("%d\n",&price);
12        temp1=price;
13        i=0;
14        count=0;
15        while(temp1!=0)
16        {
17            a[i]=temp1%10;
18            temp1=temp1/10;
19            count++;
20            i++;
21        }
22
23        for(int i=0,j=count-1;i<count/2;i++,j--)
24        {
25            temp=a[i];
26            a[i]=a[j];
27            a[j]=temp;
28
29
30        }
31        count1=count-2;
32        mul=0;
33
34        int l=0;
35        for(int i=0;i<count;i++)
36        {
37            mul=0;
38
39            count1=count-2;
40            for(int j=0;j<count;j++)
41            {
42                if(i==j)
43                {
44                    continue;
45                }
46                else
47                {
48                    expp=pow(10,count1);
49                    mul=mul+(expp*a[j]);
50                    count1--;
51                }
52            }
53
54        }
55
56
57        b[l]=mul;
58        l++;
59    }
60
61
```

```
62     for(int i=0;i<l-1;i++)
63     {
64         for(int j=i+1;j<l;j++)
65         {
66             if(b[i]>=b[j])
67             {
68                 tt=b[i];
69                 b[i]=b[j];
70                 b[j]=tt;
71             }
72         }
73     }
74     printf("%d\n",b[0]);
75
76     tc--;
77 }
78
79
80
81
82 }
```