```
1 # Simple class
 2 class tickerClient(object):
       table = dict()
 3
 4
 5
       def __init__(self):
 6
            pass
 7
 8
       def peek(self, ticker):
 9
            return self.table[ticker][-1]
10
11
       def insert(self, ticker, price):
12
            self.table.setdefault(ticker, []).append(price)
13 # Test tickerClient
14 c = tickerClient()
15 c.insert('ibm', 34.4)
16 c.insert('ibm', 37)
17 print( c.table )
18 print( c.peek('ibm') )
19
20
21
22
23 def atoi(a):
24
       tot = 0
25
       for d in a:
           x = ord(d) - ord('0')
26
27
           tot = tot*10 + x
28
       return tot
29 # Test atoi
30 a = '341'
31 print(atoi(a))
32
33
34
35
36 def itoa(n):
       from collections import deque
37
       q = deque()
38
39
       while n!=0:
            # Extract right most digit, offset by ascii '0', converts to string
40
            q.appendleft( chr( ord('0')+n%10 ) )
41
42
43
            # Right shift base 10
44
            n \ = \ n//10
       return ''.join(q)
45
46 # Test itoa
47 n = 341
48 print(itoa(n))
```