CSC 120 ICA-2 SOLUTIONS

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1.
(a)
      v: string
      w:tuple
      x : dictionary
      y: list
(b)
v[2:4] is the string CD', so v[2:4].lower() is Cd'. On the right hand side,
w[1] is (12, 23,34) so w[1][2] is 34.
So the assignment sets x [ \cd' ] to 34. Thus, the value of x after this assignment is:
      { 'abc' : 12, 'cde' : 34, 'efg' : 56, 'cd' : 34 } <<<<
      ANSWER
2.
      def num keys(d):
           keylist = list(d.keys())
           nkeys = len(keylist)
           for k in keylist:
                nkeys += len(list(d[k].keys()))
           return nkeys
3.
      def remove first(tup):
           assert len(tup) >0 "tup is empty"
           return tup[1:]
```