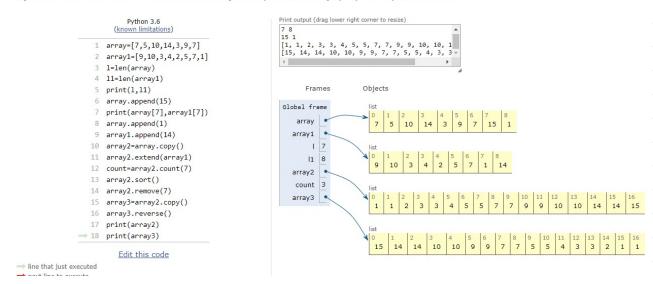
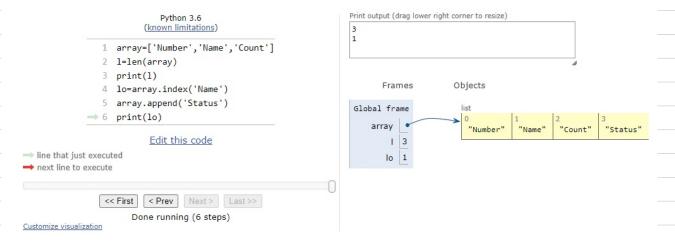


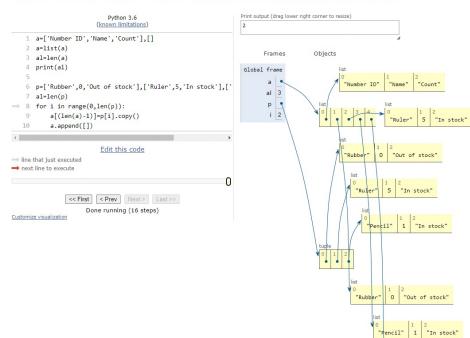
## Python Tutor: Visualize code in Python, JavaScript, C, C++, and Java



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```
1 a=['Number ID','Name','Count'],[]
       2 a=list(a)
       3 al=len(a)
       4 print(al)
             v=['Rubber',0,'Out of stock'],['Ruler',5,'In stock'],['Pencil',1,'In stock']
       6
            v=list(v)
              for i in range(0,len(v)):
       8
                        a[(len(a)-1)]=v[i].copy()
       9
                        a.append([])
     10
              for i,j in enumerate(a):
                               'In stock' in j:
    11
                                  where=(i,j.index('In stock'))
    12
                                   print('In Stock index = '+str(where))
     13
              for i,j in enumerate(a):
    if 'Out of stock' in j:
     14
     15
                                  where=(i,j.index('Out of stock'))
     16
     17
                                  print('Out of stock index = '+str(where))
     18
              for i,j in enumerate (a):
    if 'In stock' in j:
        if 'Ruler' in j:
     19
     20
     21
     22
                                          a[2][1]-=1
              if a[2][1] == 0:
     23
     24
                        del a[2][2]
                        a[2].insert(2,'Out of stock')
     25
     26
     27
              for i,j in enumerate (a):
                                'In stock' in j:
     28
                                  if 'Pencil' in j:
     29
     30
                                            a[3][1]-=1
     31
              if a[3][1] == 0:
     32
                        del a[3][2]
                        a[3].insert(2,'Out of stock')
     33
     34
     35
              for i,j in enumerate (a):
                        if 'In stock' in j:
   if 'Pen' in j:
     36
     37
                                           a[4][1]-=2
     38
              if a[4][1] == 0:
     39
                        del a[4][2]
    40
                        a[4].insert(2,'Out of stock')
    41
                                                                                                          Print output (drag lower right corner to resize)
    42
                                                                                                          2
In Stock index = (2, 2)
In Stock index = (3, 2)
In Stock index = (3, 2)
In Stock index = (4, 2)
In Stock index = (5, 2)
Out of stock index = (5, 2)
Out of stock index = (6, 2)
[['Rubber', 0, 'Out of stock'], ['Ruler', 4, 'In stock'], ['Pencil', 0, 'Out of stock'], ['Coulour pencil', 0, 'Out of stock'], ['A4 Paper', 0, 'Out of stock'], ['A4 Paper', 0, 'Out of stock'], ['Rubber', 0, 'Out of stock'], ['Ruler', 0, 'Out of stock'], ['Ruler', 0, 'Out of stock'], ['A4 Paper', 0, 'Out of stock']
    43
              for i,j in enumerate (a):
                        if 'In stock' in j:
    44
                                 if 'Coulour pencil' in j:
    45
                                            a[5][1]-=1
    46
              if a[5][1] == 0:
     47
    48
                        del a[5][2]
     49
                        a[5].insert(2,'Out of stock')
    50 del a[0]
    51 print (a)
```