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| **#** print Fibonacci Series  def F(n):  if n == 0:  return 0  elif n == 1:  return 1  else:  return F(n-1) + F(n-2)  n = 10 #  for num in range(0, n):  print(F(num))  def **decor**(fun):  def inner():  val = fun()  return val\*100  return inner | **# Binary Search**  def BinarySearch(lst, item):  start = 0  end = len(lst)-1  # result = -1  while start <= end:  mid = start + (end - start)//2  if item == lst[mid]:  return lst[mid], mid  # result = mid  # end = mid -1  # start = mid+1  elif item < lst[mid]:  end = mid-1  else:  start = mid+1  return False  # return result | def **quick\_sort**(list\_a): O(n log(n))    if len(list\_a) <= 1:  return list\_a  else:  pivot = list\_a[len(list\_a) // 2]  left = [x for x in list\_a if x < pivot]  middle = [x for x in list\_a if x == pivot]  right = [x for x in list\_a if x > pivot]    return **quick\_sort**(left) + middle + **quick\_sor**t(right)  def **bubble\_sort**(lst): O(n^2)  for j in range(len(lst)):  for i in range(len(lst)-1):  if lst[i] > lst[i+1]:  lst[i], lst[i+1] = lst[i+1], lst[i]  return lst | class **InputOutputString**:  def \_\_init\_\_(self):  self.s = ""    def getString(self):  self.s = input('Enter a String: ')    def printString(self):  print(self.s.upper())    strObj = **InputOutputString**()  strObj.getString()  strObj.printString() |