GATE PYQs - II

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# GATE 2016
def f(p: list, n: int)->int:
  if n<=1:
    return 0
  else:
    return max(f(p[1:], n-1), p[0]-p[1])
a = [3,5,2,6,4]
print(f(a,5))
a = 1000
def f(x=a):
 z = 10
  y = x*z
  print(y)
a = 5
f()
    10000
```

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# GATE 2015
x = 10
def f1():
  x = 25
  x += 1
  return x
def f2():
  x = 50
  def inner_f2():
   nonlocal x
   x += 1
    return x
  return inner_f2
def f3(y=x):
  z = y*10
  return z
x = 1
call_f2 = f2()
x += (f1()+call_f2()+f3()+call_f2())
print(x)
→ 230
count = 0
def get(n: int)->None:
  global count
  count += 1
  if n<1:
    return
  get(n-1)
  get(n-3)
get(6)
print(count)
→ 25
def fun(n: int):
 x = 1
  if n==1:
   return x
  for k in range(1,n):
    x = x+fun(k)*fun(n-k)
  return x
fun(5)
```

$$b = "x"$$

$$c = ord(a and b) + ord("*")$$

$$d = ord(a or b) + ord("-")$$

print(c,d,e)

80^120