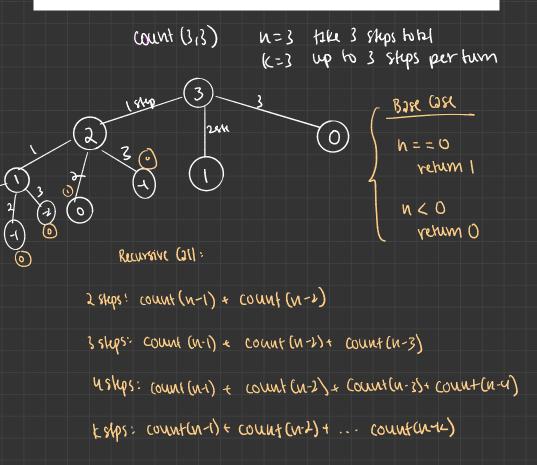
2 Tutorial: Consider a special version of the count\_stairways problem, where instead of taking 1 or 2 steps, we are able to take up to and including k steps at a time.

Write a function count\_k that figures out the number of paths for this scenario. Assume n and k are positive.

def count\_k(n, k):

>>> count\_k(300, 1) # Only one step at a time 1

....



```
Yearwise bibl=0

Food to bl

while (i \le k)

bibl t = (ount (n-i, k)

it=1

we tobl
Base case:
N== 0
  YCHUM !
 NLO
   rehim 0
                                          factional (n):
     factorial (N)
      if N== 1:
                                             j=|
                                             bal=1
         rehim 1
                                             while (i < = N)
     yellun nx factorial (n-1)
                                               horal = lead * i
                                               1=+1
                                             return total
```

