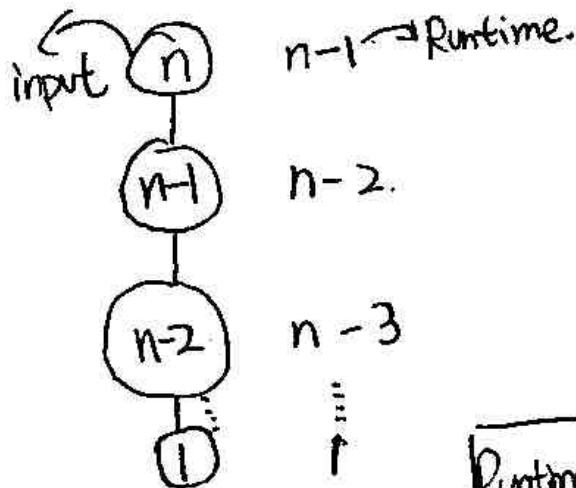


Q3. `def sum_lst1(lst):`  
 `if (len(lst) == 1):`  
 `return lst[0].`

`else:` `rest = sum_lst1[1:]`  $n$   
 `sum = lst[0] + rest`  
 `return sum.`



**Runtime:  $\theta(n^2)$**

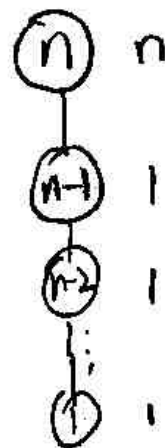
$1+2+3+\dots+(n-1)$

`def sum_lst2(lst, low0, highn):`

`if (low == high):`  
 `return lst[low]`

`else:`  
 `rest = sum_lst2(lst, low+1, high)`

`sum = lst[low] + rest`  
 `return sum.`



**Runtime:  $\theta(n)$**

Second one  
~~R~~ is faster