<https://colab.research.google.com/drive/1wICULIJEZAeFzvkvG2VXK_UW9tyJ_vh2?usp=sharing#scrollTo=BCa3uzayLS3P>

1. Implementati o functie recursiva care returneaza ultimul element dintr-o lista.

def last(xs):

if len(xs) == 0:

return None  
 if len(xs) == 1:  
 return xs[0]  
 else:  
 return last(xs[1:])

def suma(n):  
 if n == 0:  
 return 0  
 else:  
 return n + suma(n-1)

1. Implementati o functie recursiva care returneaza elementul de pozitia i din lista. (Nu puteti folosi xs[i]).

def element\_at(xs, i):  
 if i == 0:  
 return xs[0]  
 else:  
 i -= 1  
 return element\_at(xs[1:], i)  
  
print(element\_at([1,2,3,4], 2)) # 3  
print(element\_at(['a', 'b', 'c'], 0)) # a

1. Implementati o functie recursiva care va inverseaza o lista.