Mhat is a recursive method Briefly explain.

A recursive method is a method that calls

ditself. There are two key requirements in

order to make sure that the recursion is

successful by and by the surecursion is

Mhat is identified as an iteration.

An interation is a single repetition of a process. In computer programming, an iteration is a single pass through a loop. Iterations are often used to penform a taks task a specified number of times, or until a certain condition is met.

For example, the following code itemates through a list of numbers and prints each number.

numbers = [1:,2,3,4,5]

for number (in number 8:11)

print (number)

examples of literations: stands 3415 * A washing machine going through its * The checkout line of sloyolesale store working & A computer II program or rendering a frame of animation y neargails of to * A mathematical algorithm converging on doitate et vehicles not plas etation 03. What is Factorial and Fibonacci. Show how they can be can used both as recursive moly and iterative, booksom svisnossi p 21 hall () A recursive method is a method that calls Factorial and Fabonacci are mathematical concept frequently used in computer science and programming. Let's explore what they are and how they can be implemented both recursively n! = n*(n-1)*(n-2)*... *3*2*19/1 The Anteinmainiteract a single repetition of a Factorial - Recursive Implementation def factorial recursive (n); it and since o if in ==0 + 100 n==100 0 beau not to medified number of times I anut or decedan else: condition is met return n * factorial-recursive (n-1) example. the following code itemstes through Factorial - Iterative Implementation def factorial_iterative(n); result = 1 for i in range (1, n+1): result *= i (asimum) + ming return result

· 0, 1, 1, 2, 3, 5, 8, 13, 21, ...

Fibonacci - Recursive Implementation def fibonacci recursive (n):

if n <=0:

return o

elseif n==1:

return 1

else:

return fibonacci_recursive(n-1) + fibonacci_recursive(n-e)

Fibonacci - Iterative Implementation def fibonacci_iterative(n):

if n <= 0 :

return o

elseif n == 1 :

return 1

fib-prev, fib-curr = 0,1

for_in range (2, n+1):

fib-next = fib-prev + fib-curr

fib-prev, fib-curr = fib-curr, fib-next

return fib-curr