```
def sumaRecursionLineal(l:List[Int]):Int = {
  l match {
    case Nil => 0
    case x::xs => x + sumaRecursionLineal(xs)
}
  sumL(List(1,2,3,4,5)) --> 1 + sumL(List(2,3,4,5)) <1>19+1=15
  sumL(List(2,3,4,5)) --> 2 + sumL(List(3,4,5)) <2> 12+7-14
  sumL(List(3,4,5)) --> 3 + sumL(List(4,5)) <3> 3+9-17
  sumL(List(4,5)) --> 4 + sumL(List(5)) <4>\neg Y + S = 9
 /sumL(List(5)) --> 5 + sumL(nil) <5> = 5-
 @tailrec
 final def sumaRecursionCola(l:List[Int], acc:Int=0):Int = {
   l match {
     case Nil => acc
     case x::xs => sumaRecursionCola(xs, acc+x)
   }
 }
 sumaRC(List(1,2,3,4,5),0)
 sumaRC(List(2,3,4,5), 1)
 sumaRC(List(3,4,5),3)
 sumaRC(List(4,5),6)
 sumaRC(List(5), 10)
 sumaRC(Nil, 15)
```

## Recursión de árbol def fibunnacci(n:Int):Int = { n match { case 0 => 0 case 1 => 1 case \_ => fibunnacci(n-1) + fibunnacci(n-2) 200 F(1)=3 F(1)=3 F(1)=8 2(0) =0 p (4) = 4