

```
object hoja1_2020 {  
    println("Welcome to the Scala worksheet")           //> Welcome to the Scala  
worksheet  
  
    import util.Random  
  
    def poner (col: Int, pos:Int, l:List[Int]): List[Int]= {  
        if (l.isEmpty) Nil  
        else if (pos==1) col::l.tail  
        else l.head::poner (col, (pos-1), l.tail) }  
                                                                    //> poner: (col: Int, pos:  
Int, l: List[Int])List[Int]  
  
val listi = List(0,0,0,0,0,0,0,0,0,0)                      //> listi : List[Int] =  
List(0, 0, 0, 0, 0, 0, 0, 0, 0, 0)  
val liston = List(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,  
                                                                    //> liston : List[Int]=  
List(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,  
                                                                    //| , 0, 0, 0, 0, 0, 0, 0, 0,  
0, 0, 0)  
val t1:List[Int] = poner (7, 2, liston)                    //> t1 : List[Int] =  
List(0, 7, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,  
                                                                    //| 0, 0, 0, 0, 0, 0, 0, 0,  
0, 0)  
  
val t2:List[Int] =poner (7, 3, t1)                          //> t2 : List[Int] =  
List(0, 7, 7, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,  
                                                                    //| 0, 0, 0, 0, 0, 0, 0, 0,  
0, 0)  
  
def insertar_aux (color: Int, pos: Int, tablero: List[Int]): List[Int] = {  
    if (pos==1) color::tablero.tail  
    else tablero.head::insertar_aux(color, pos-1, tablero.tail)  
}  
                                                                    //> insertar_aux: (color:  
Int, pos: Int, tablero: List[Int])List[Int]  
  
val t3:List[Int]= insertar_aux (7,4,listi)                  //> t3 : List[Int] =  
List(0, 0, 0, 7, 0, 0, 0, 0, 0, 0)  
  
def poner1 (col: Int, l:List[Int]): List[Int]= {  
    val pos= (1+Random.nextInt(27))  
    val l=List(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,  
                                                                    //> poner1: (col: Int, l:  
List[Int])List[Int]  
  
val t11:List[Int] = poner1 (7, liston)                     //> t11 : List[Int] =  
List(0, 7, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,  
                                                                    //| , 0, 0, 0, 0, 0, 0, 0, 0,  
0, 0, 0)  
  
}
```