```
object hoja1 2020 {
 worksheet
  import util.Random
 def poner (col: Int, pos:Int, 1:List[Int]): List[Int]= {
    if (l.isEmpty) Nil
    else if (pos==1) col::1.tail
    else 1.head::poner (col, (pos-1), 1.tail) }
                                  //> poner: (col: Int, pos:
Int, 1: List[Int])List[Int]
                                 //> listi : List[Int] =
val listi = List(0,0,0,0,0,0,0,0,0,0,0)
List(0, 0, 0, 0, 0, 0, 0, 0, 0)
//> liston : List[Int] =
//| , 0, 0, 0, 0, 0, 0, 0,
0, 0, 0
val t1:List[Int] = poner (7, 2, liston)
                                 //> t1 : List[Int] =
// 0, 0, 0, 0, 0, 0, 0,
0, 0)
val t2:List[Int] =poner (7, 3, t1)
                                  //> t2 : List[Int] =
// 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]
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))
if (l.isEmpty) Nil
else if (pos==1) col::1.tail
else l.head::poner1 (col, l.tail) }
                                //> poner1: (col: Int, l:
List[Int])List[Int]
val t11:List[Int] = poner1 (7, liston)
                                 //> t11 : List[Int] =
//| , 0, 0, 0, 0, 0, 0, 0,
0, 0, 0)
```

```
def crearRandomCol ():Int={
 val random = util.Random
 val colo = random.nextInt(9)+1
 colo
                                            //> crearRandomCol: ()Int
 }
def ponerColo ( lis1:List[Int]): List[Int]= {
val pos5= crearRandom ()
val colo=crearRandomCol ()
println(pos5)
println(colo)
if (lis1.isEmpty) Nil
else if (pos5==1) colo::lis1.tail
else lis1.head::ponerColo ( lis1.tail) }
                                          //> ponerColo: (lis1:
List[Int])List[Int]
val tfc:List[Int] =ponerColo ( lis1)
                                            //> 1
                                            //| 8
                                           //| tfc : List[Int] =
//| 0, 0, 0, 0, 0, 0, 0, 0,
0, 0)
```

```
//Tratamiento de errores con throw
def imprimir (xs:List[(Int)]):Unit = xs match {
case Nil => println("----")
case a1::a2::a3::a4::xs => println ("-----")
                                               print(" ")
                                               print (a1)
                                               print(" ")
                                               print (a2)
                                               print ("|")
                                               print (a3)
                                               print ("|")
                                               print (a4)
                                               println ("|")
                                               imprimir (xs)
case _ => throw new Error("TABLA ERRONEA")}
                                               //> imprimir: (xs:
List[Int])Unit
imprimir(lis)
                                                //> -----
                                                //| |15|46|44|92|
                                                // -----
                                                //| |94|50|60|29|
                                                // -----
                                                //| |24|36|47|90|
                                                //| -----
                                                //| |3|49|74|53|
                                                // -----
 def productElement(i: Int): Any = i match {
   case 0 => nombre
   case 1 => edad
   case _ => throw new IndexOutOfBoundsException(i.toString)
```

```
def checkSign(x:Int):String ={
  x match {
  case a if a<0 => s"$a is a negative number"
  case b if b>0 => s"$b is a positive number"
  case c => s"$c neither positive nor negative"
}
}
val dd=checkSign(10)

checkSign: (x: Int)String
dd: String = 10 is a positive number
}
```