chaper one : what is fiunction programming

Read without doing you will find yourself lost

List 和 Array的区别：

Lists are quite similar to arrays, but there are two important differences. First, lists are immutable. That is, elements of a list cannot be changed by assignment. Second, lists have a recursive structure (*i.e.*, a *linked list*),1 whereas arrays are flat.

List are homogeneous

The list type in Scala is *covariant*. This means that for each pair of types S and T, if S is a subtype of T, then List[S] is a subtype of List[T]. For instance, List[String] is a subtype of List[Object]. This is natural because every list of strings can also be seen as a list of objects.2

在scala 中 Nothing 类是所有类的子类

Nil represents the empty list.