

Explain `List.drop` and `List.dropRight`

`List.drop(Int)`

`List.drop(Int)` returns a list without the first n elements.

`List.dropRight(Int)` returns a list without the last n elements.

How do you print every line of a file?

```
val source = Source.fromFile(filename)
for(line <- source.getLines)
  println(line)
```

Explain how to append instead of prepend to a list.

Use `ListBuffer` **then call** `toList`.

Explain `List.map`

```
List.map(func)
```

Creates a list composed of the original elements run through a filter.

Explain `List.::`:

Pronounced "cons", prepends an element to the list.

Explain `List.exists`

```
List.exists(func)
```

Determines whether an element of the list satisfies the `func` predicate.

Make a list using only cons.

1::2::3::Nil

`myObj(i) = j` is the same as what?

```
my.Obj.update(i, j)
```


Explain `List.foreach`

```
List.foreach(func)
```

Executes `func` on every element of the list.

What is a tuple?

It's like an immutable list, but can contain objects of multiple types.

How are `List.last` and `List.tail` different?

`List.last` returns a list without the first element.

`List.tail` returns only the last element.

Describe operator association.

Operators are methods of the *left* operand unless they end with `:`, in which case they are methods of the *right* operand.

Explain `List:::`

Concatenates two `Lists` into a new list.

How are `Arrays` different from `Lists`?

Arrays are immutable and covariant. Lists are mutable and nonvariant.

Explain `List.mkString`

`List.mkString(str)`

`List.mkString()` **uses no separation.**

Makes a `String` with elements of a `List` separated by the argument to `mkString`.

What is the first element of `myTuple`?

myTuple._1

Not myTuple._0

Explain `List.forall`

```
List.forall(func)
```

Returns whether all elements of the `List` satisfy the `func` predicate.

`List.filter`

```
List.filter(func)
```

Returns a `List` of all elements satisfying the `func` predicate.

What is `myObj(i)` the same as?

```
myObj.apply(i)
```

Explain `List.head` and `List.init`

`List.head` returns the first element.

`List.init` returns a `List` without the first element.