Var

Every LINQ query returns either a single value or an object of type IEnumerable<T>.

For now, all you need to know about that second type is that:

It works with foreach loops, just like arrays and lists

You can check its length with Count()

Since the single value type and/or the parameter type T is not always known, it's common to store a query's returned value in a variable of type var.

var is just an implicitly typed variable — we let the C# compiler determine the actual type for us. Here's one example:

```
string[] names = { "Tiana", "Dwayne", "Helena" };
var shortNames = names Where(n => n Length < 4);</pre>
```

In this case shortNames is actually of type IEnumerable<string>, but we don't need to worry ourselves about that as long as we have var!

✓ Instructions

Hint

1.

Let's practice using var with LINQ.

Create a variable of type var named shortHeroes and set it equal to this LINQ query:

```
from h in heroes
where h.Length < 8
select h;</pre>
```

Here's an example that sets the variable eBirds to a LINQ query:

```
var eBirds = from bird in birds
  where bird StartsWith("e")
  select bird;
```

2.
Use a foreach loop to print out each element in shortHeroes.

3.

Create another variable of type var named longHeroes and set it equal to this LINQ query:



4.
Use Count() to print the number of elements in longHeroes.

longHeroes is of type IEnumerable<T> , not List<T> , so we use the method Count() , not the property Count .