



4.) Consider the following `enum` definition, defining the structure of a linked list:

```
indirect enum List<A> {  
  case cons(A, List<A>)  
  case empty  
}
```

4.a.) Define the `map` function, which has the following signature:

```
func map<A, B>(list: List<A>, f: (A) -> B) -> List<B> {
```

4.b.) Define the `foldLeft` function, which has the following signature:

```
func foldLeft<A, B>(list: List<A>,  
  accum: B,  
  f: (B, A) -> B) -> B {
```