



```
Element head(List 1);
  List tail(List 1);
  int isEmpty(List 1);
  List emptyList();
  List cons(List 1, Element e);
  List deleteFirst(List 1);
```

Listenlänge

```
unsigned int length(List 1) {
   unsigned int res = 0;
   for( res = 0 ; !isEmpty(1) ; l = l->next ) res++;
   return res;
}
```

Einfügen in eine Liste

```
List insertAt(List 1, unsigned int idx, Element e) {
   List run = 1;
   if( idx == 0 ) return cons(l, e);
   for( ; idx > 1 ; idx-- ) {
      assert( !isEmpty(run) );
      run = run->next;
   }
   run->next = cons(run->next, e);
   return 1;
}
```