Sets may be used to represent sequences with no duplicates. Unlike a sequence, a set is not enumerable; but any conceivable representation of a set is. This demands the ability to convert a set into a sequence, for operations where a sequence is more suitable. The following definitions provide support for such an operation.

take1 takes an arbitrary element out of a set and returns a pair consisting of the element and the remaining set.

takeAll iteratively applies take1 until the set is empty, and constructs a sequence from the resulting elements.

```
[T] = takeAll : \mathbb{P} T \to \operatorname{seq} T
\forall ts, s : \mathbb{P} T \bullet \forall t : T \bullet 
(t, s) = take1(ts) \Rightarrow takeAll(ts) = \langle t \rangle \cap takeAll(s)
```