FuzzySet

Safe Haskell	Safe
Language	Haskell2010

This module defines the fuzzy set implementation which will be used within the project, as well as some basic operations on them.

Documentation

```
type FuzzySet = [Int]
```

A `FuzzySet` is the data type we'll be using to represent fuzzy sets. We use a list of `Int`s, each value represents the degree of membership of the `Int` index to the fuzzy set as a number between 0 and 10. Discreet lists and integer-only operations were preffered due to implementation convenience, but one can find it trivial to switch to any of the rich datakinds provided by CλaSH.

```
union :: FuzzySet -> FuzzySet -> FuzzySet
```

`union` returns the union of two `FuzzySet`s.

```
intersect :: FuzzySet -> FuzzySet -> FuzzySet
```

`intersect` returns the intersection of two `FuzzySetss`.