```
                    BDSBin
        ─────────────────────────────
         + xmin
         + xmax
         + xmean
         + total
         + sumWeightsSquared
        ─────────────────────────────
         + BDSBin()
         + GetValue()
         + GetError()
         + GetLowerEdge()
         + GetUpperEdge()
         + GetXMeanAndTotal()
         + operator+=()
         + operator==()
         + operator!=()
         + Empty()
         + InRange()
```

elements

```
        std::vector< BDSBin * >
        ──────────────────────────
         − elements
        ──────────────────────────
```

overflow
underflow

bins
_iterBins

```
                BDSHistogram1D
        ─────────────────────────────
         − bins
         − overflow
         − underflow
         − name
         − title
         − entries
         − _iterBins
        ─────────────────────────────
         + BDSHistogram1D()
         + BDSHistogram1D()
         + ~BDSHistogram1D()
         + Empty()
         + Fill()
         + Fill()
         + GetBins()
         + GetBinValues()
         + GetBinXMeansAndTotals()
         + GetBinLowerEdges()
         + PrintBins()
         + GetUnderOverFlowBins()
         + GetUnderOverFlowBinValues()
         + GetUnderflowBin()
         + GetOverflowBin()
         + GetFirstBin()
         + GetLastBin()
         + GetName()
         + GetTitle()
         + GetNBins()
         + GetNEntries()
         + currentBin()
         + first()
         + isLastBin()
         + isDone()
         + next()
         − BDSHistogram1D()
```