TRealList Reference

http://www.explainth.at

The Delphi TStringList class provides an easy mechanism for storing, manipulating and managing lists of strings. TRealList offers the same functionality for floating point numbers. The principal properties and methods of TRealList are tabulated below

Properties	
Granularity	Controls the behavior of the **AddReal** and **Find** methods. Values that differ from one another by no more than **Granularity** are treated as being equal. The default value is 0.000001.
RealCount	The number of entries in the list. This is a **ReadOnly** property.
Reals[Index]	This is the default property. Using an invalid **Index** value – less than 0 or >= **RealCount** – triggers an **EBadIndex** exception.

Methods	
CreateNew	Creates a new instance of **TRealList**
CreateFromStream(AStream:TStream)	Recreates an instance of **TRealList** from data previously streamed out to **AStream**.
ReCreate(const AFile:String)	Recreates an instance of **TRealList** from streamed data if **AFile** exists. Otherwise, it creates a new instance by calling the **CreateNew** constructor.
Destroy	Releases all resources used by **TRealList**
WriteToStream(AStream:TStream)	Streams out the contents of the list to **AStream.** A checksum is written at the start of the data. This is checked when an attempt is made to recreate the list. An erroneous checksum triggers an **EBadCS** exception.
AddReal(Value:Double)	**Value** is added to the list – provided it does not already exist. The **Find** method is used to test for existing values.
ClearEx(AndFree:Boolean)	Empties the list. **AndFree** should normally be **False.** The value of **True** is used by internally by the object destructor.
Delete(Index:Integer)	Discards the value at **Index.** An invalid **Index** value triggers an **EBadIndex** exception.
Find(Value:Double;Index:Integer):Boolean	Returns **True** if **Value** is found in the list. The **Granularity** setting is used to compare **Value** against current entries in the list.
Insert(Index:Integer;Value:Double)	Inserts **Value** at the position **Index.** An invalid **Index** value will trigger an **EBadIndex** exception. If **Value** already exists an **EDupVal** exception will be triggered.

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