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| --- |
| IntArray |
| - int\* aptr  - int arraySize  + OutOfRange : class |
| + IntArray(int)  + IntArray(const IntArray&)  + ~IntArray()  + int size() : int  + const IntArray operator=(const IntArray&)  + int& operator[](const int&)  + OutOfRange(int)  + int getIndex() const : int |

|  |
| --- |
| MyUnit |
| - unsigned short value  - char description[100] |
| + MyUnit()  + void setValue(int)  + int getValue() const  + void setDescription(string)  + string getDescription() const  + friend operator<<(ostream&, const MyUnit&) |

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| --- |
| SearchableVector<T> |
| - inherits SpecSimpleVector<T> |
| + SearchableVector(int)  + int findItem(const T) |
| SearchableVector<string> |
| - inherits SpecSimpleVector<string> |
| + SearchableVector(int)  + int findItem(const string) |

|  |
| --- |
| SimpleVector<T> |
| - T\* aptr  - int arraySize  - int capacity |
| + SimpleVector()  + SimpleVector(int)  + SimpleVector(const SimpleVector&)  + ~SimpleVector()  + int size() : int  + T getElementAt(int) : T  + T& operator[](const int&)  + void push\_back(T)  + void pop\_back() |

|  |
| --- |
| SpecSimpleVector<T> |
| - T\* aptr  - int arraySize |
| + SpecSimpleVector()  + SpecSimpleVector(int)  + SpecSimpleVector(const SpecSimpleVector&)  + ~SpecSimpleVector()  + int size() : int  + T getElementAt(int) : T  + T& operator[](const int&) |
| SpecSimpleVector<string> |
| - string\* aptr  - int arraySize |
| + SpecSimpleVector()  + SpecSimpleVector(int)  + SpecSimpleVector(const SpecSimpleVector<string>&)  + ~SpecSimpleVector()  + int size() : int  + string getElementAt(int) : string  + string& operator[](const int&) |

|  |
| --- |
| TestScores<T> |
| - vector<T> scores |
| + TestScores(const vector<T>&)  + T getAverage() const : T |