arrayListType Design

UML Diagram

The name of an abstract class is italicized.

The name of an abstract (virtual) function is italicized and it is set equal to 0.

Use # to mark protected instance variables

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| --- |
| *arrayListType* |
| #\*list: int |
| #length: int |
| #maxsize: int |
| +isEmpty() const: bool |
| +isFull() const: bool |
| +listSize() const: int |
| +maxListSize() const: int |
| +print() const: void |
| +isItemAtEqual(int, int) const: bool |
| +*insertAt*(int, int) = 0: void |
| +*insertEnd*(int) = 0: void |
| +removeAt(int): void |
| +retrieveAt(int, int&) const: void |
| +*replaceAt*(int, int) = 0: void |
| +clearList(): void |
| +*seqSearch*(int) const = 0: int |
| +*remove*(int) = 0: void |
| +*removeAll*(int) = 0: void |
| +arrayListType(int = 100) |
| +arrayListType(const arrayListType&) |
| +~arrayListType() |