Sorted List Readme

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Big-O Analysis

SLCreate

This creates the memory for an empty sorted list. The analysis depends on what the rest of the OS is doing, as it only allocates memory.

O(1)

SLDestroy

This frees all the memory for a list. The analysis depends on what the rest of the OS is doing, as it only frees memory.

O(1)

SLInsert

This inserts an object into the sorted list. This is a binary search tree where the worst case is one long branch.

O(n)

SLRemove

This removes an object from the sorted list. This is a binary search tree where the worst case is one long branch.

O(n)

SLCreateIterator

This creates an object that allows the caller to iterate through the list.

O(1)

SLDestroyIterator

This frees the memory used for an object that iterates through the list.

O(1)

SLNextItem

Returns the next object from an iterator.

O(1)