## Running time and memory usage

SortedListPtr SLCreate(CompareFuncT cf, DestructFuncT df):
Running time usage: O(1)
Memory usage: O(1)
void SLDestroy(SortedListPtr list):
Running time usage: O(n). The code iterates from the head to tail and delete one by one
Memory usage: O(1). It takes 2 pointer variables.
int SLInsert(SortedListPtr list, void *newObj):
Running time usage: $O(n)$ . The code iterates from the head to tail to find the appropriate position to insert.
Memory usage: O(1). It takes 3 variable pointers.
int SLRemove(SortedListPtr list, void *newObj):
Running time usage: $O(n)$ . The code iterates from the head to tail to find the appropriate position to remove.
Memory usage: O(1). It takes 3 variable pointers.
SortedListIteratorPtr SLCreateIterator(SortedListPtr list):
Running time usage: O(1)

Memory usage: O(1)
void SLDestroyIterator(SortedListIteratorPtr iter):
Running time usage: O(1)
Memory usage: O(1)
void * SLGetItem( SortedListIteratorPtr iter):
Running time usage: O(1)
Memory usage: O(1)
void * SLNextItem(SortedListIteratorPtr iter):
Running time usage: O(1)
Memory usage: O(1)