

```
/*  
 * Authors: Olaolu Emmanuel && Jordan Lyon  
 */
```

SLCreate

space: size of two function pointers and a struct pointer. $O(1)$

efficiency: initialize all variables in struct. $O(1)$

SLDestroy

space: size of one two struct pointers. $O(1)$

efficiency: frees each node and then the struct. $O(n)$ where n is the number of nodes.

SLInsert

space: size of one node. $O(1)$

efficiency: worst case is end of list insertion which is $O(n)$

SLRemove

space: size of two struct pointers. $O(1)$

efficiency: worst case is not finding the target which is $O(n)$

SLCreateIterator

space: size of one Iterator struct. $O(1)$

efficiency: $O(1)$

SLDestroyIterator

space: only space for a few pointers. $O(1)$

efficiency: iterator is of constant size $O(1)$

SLNextItem

space: only requires pointer to the data item $O(1)$

efficiency: uses the previous item's next-node value to find the next node. $O(1)$

SLGetItem

space: returns pointer. $O(1)$

efficiency: pointer is already in the struct $O(1)$