

10.2-2.

Implement a stack using a singly linked list L . The operations PUSH and POP should still take $O(1)$ time.

Answer.

STACK-EMPTY(S)

```
1  if  $L.head == \text{NIL}$ 
2      return TRUE
3  else return FALSE
```

PUSH(S, x)

```
1  LIST-INSERT( $L, x$ )
```

POP(S)

```
1   $x = L.head$ 
2  LIST-DELETE( $L, L.head$ )
3  return  $x$ 
```

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