

Initialization:

$myList == null$ , so for any item in  $myList$  which belongs to  $myList$ ,  $items \neq item$ ,  
Which is true, because for any statement in regarding of the empty list is true

Maintenance:

Assume the loop variant is true at the index of  $i$  iteration of the for loop,  
If  $item = item$ , we can print "found", otherwise, we just continue the for loop.

Termination:

We will stop the for loop once we have iterated all items in  $myList$ .