

```
LINEAR-SEARCH(A, v)
for i = 1 to A.length
    if A[i] == v
        return i
return NIL
```

**Invariant:** A[1...i-1] doesn't contain the element

**Maintainance:** If the next i is the value then end function otherwise continue.

**Termination:** At the end if A[1...A.length] don't have v the we will return NIL