

## TAD Array

### 1. Search

```
3 def search(Array, element):
4
5     index=0
6     for i in Array:
7         if i==element:
8             return index
9         index=index+1
10
11     return None
```

### 2. Insert

```
13 def insert(Array, element, position):
14
15     if position<0 or position>=len(Array):
16         return None
17     else:
18         for i in range (len(Array)-1,position, -1):
19             Array[i]=Array[i-1]
20
21         Array[position]=element
22         return position
```

### 3. Delete

```
25 def delete(Array, element):
26
27     index=search(Array, element)
28     if index != None:
29         for i in range(index, len(Array)):
30             if i<len(Array)-1:
31                 Array[i]=Array[i+1]
32             elif i==len(Array)-1:
33                 Array[i]=None
34         return index
35     else:
36         return None
```

### 4. Length

```
38 def length(Array):
39
40     contador=0
41     for i in Array:
42         if i != None:
43             contador=contador+1
44
45     return contador
```