```
#Binary Serach on sorted list
#list item-> bool
def binarySearch(alist, item):
    first = 0
    last = len(alist)-1
    found = False
    while first<=last and not found:</pre>
        midpoint = (first + last)//2
        if alist[midpoint] == item:
            found = True
        else:
            if item < alist[midpoint]:</pre>
                last = midpoint-1
            else:
                first = midpoint+1
    return found
```