

```
def BinarySearch(x, list):  
    i=0  
    j=len(list)-1  
    while i<j:  
        m=floor((i+j)/2)  
        if x>list[m]:  
            i=m+1  
        else:  
            j=m  
    if x ==list[i]:  
        location=i+1  
    else:  
        location=-1  
    return location
```

```
BinarySearch(8,[1,2,3,4])  
-1
```