

```
1 def binarysearch(A, key):
2     low = 0
3     high = len(A)-1
4     while low <= high:
5         mid = (low + high) // 2
6         if key == A[mid] :
7             return True
8         elif key < A[mid]:
9             high = mid -1
10        else :
11            low = mid + 1
12    return False
13
14 A = [15,21,47,84,96]
15 found = binarysearch(A,46)
16 print('The Element 46: ',found)
17
```