```
def bsearch(a, x):
    "Use binary search to find x in list a"
    lower = -1
    upper = len(a)
    while upper > lower + 1:
        mid = (lower + upper) // 2
        if a[mid] == x:
            return mid
        if x < a[mid]:
            upper = mid
        else:
            lower = mid
    return None
```