```
function bsearch(t,want,firstp, lo,mid,hi,out)
out, lo, hi = 1, lo or 1, #t
while lo <= hi do
mid = (lo + hi)//2;
if want == t[mid] then
out = mid
out = mid
if firstp then hi=mid-1 else lo=mid+1 end
else
if want < t[mid] then hi=mid-1 else lo=mid+1 end end
return out end

to local key,t = 20, (10,20,20,20,40,50)
lo = bsearch(t,key,true)
hi = bsearch(t,key,false,lo)
print(lo,hi)</pre>
```