

```
function result=question2(u,v)
result=true;
for i=1:length(u)
    if ~find_with_binary_search(u(i),v)
        result=false;
        return;
    end
end
end
```

```
function
result=find_with_binary_search(a,v)
if length(v)==1
    result=(a==v);
elseif length(v)==2;
    result= a==v(1) | a==v(2);
else
    midpoint_index=floor((1+length(v))/2);
    if a==v(midpoint_index)
        result=true;
    elseif a<=v(midpoint_index)
```

```
result=find_with_binary_search(a,v(1:midpoint_index-1));
```

```
else
```

```
result=find_with_binary_search(a,v(midpoint_index+1:end));
```

```
end
```

```
end
```

```
end
```