1.

count	i
0	0
0	1
0	2
1	3
1	4
2	5

2.

a) 2 b) 5 c) $

3. a[j] goes into a[i]. now you have 29 in both places.
You need to temporarily store value of a[i] so that you can move to a[j] position.

4.

```
i ← 0
while (i<n && x ≠ a[i])
        i ← i+1
return i
```

5.

```
i ← 0
max ← a[0]
while i < n
    if (a[i] > max)
        max ← a[i]
    i ← i+1
return max
```