

```

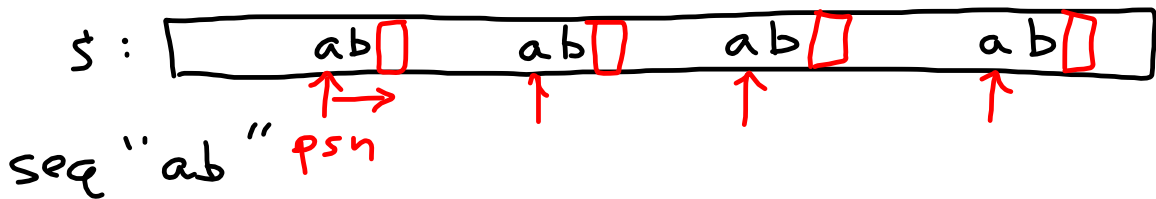
// count occurrences of seq
// in s
public int countSeq (
    String s, String seq)
{
    if (seq.length() == 0)
        return -1;
    int count = 0;
    int psn = s.indexOf(seq);
    while (psn >= 0)
    {
        count++;
        s = s.substring
            (psn + seq.
             length());
        psn = s.indexOf(seq);
    }
    return count;
}

```

*initializes* → (points to if statement)

*boolean - whether to continue* → (points to while condition)

*inside: change to the boolean condition* → (points to substring call)



```

psn = s.indexOf(seq);
if found
    increment count
    s = s.substring(psn +
                    length of seq)

```

```
// count occurrences of seq in s
public static int countSeq(String s, String seq)
{
    int count = 0;
    if (seq.length() == 0)
        return -1;
    int psn = s.indexOf(seq);
    while (psn >= 0)
    {
        count++;
        s = s.substring(psn + seq.length());
        psn = s.indexOf(seq);
    }
    return count;
}
```

Ex 1 p. 212

initializer

```
double pop = 111.2;
// millions
int year = 2010;
```

boolean condition

```
while (pop < 120)
{
    year ++;
    pop *= 1.0113;
}
```

change in boolean condition

```
System.out.println(year);
```