## Streams revisited

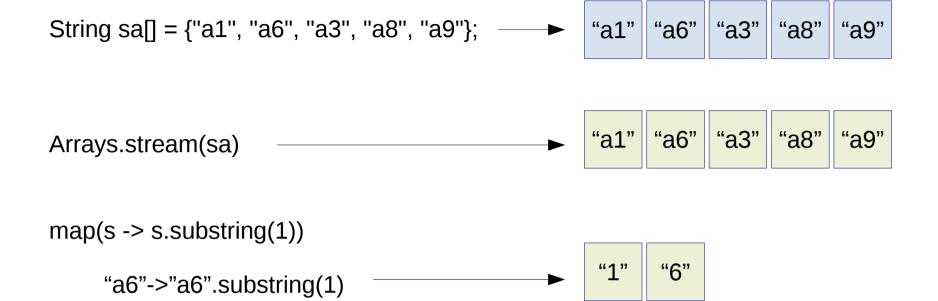
```
public static void pipe7Test() {
    String sa[] = {\text{"a1", "a6", "a3", "a8", "a9"}};
    int summe = Arrays.stream(sa)
                 .map(s -> s.substring(1))
                 .map(s -> Integer.parseInt(s))
                 .filter(i \rightarrow i > 6)
                 .reduce(0, Integer::sum);
    System.out.println("Summe: " + summe);
```

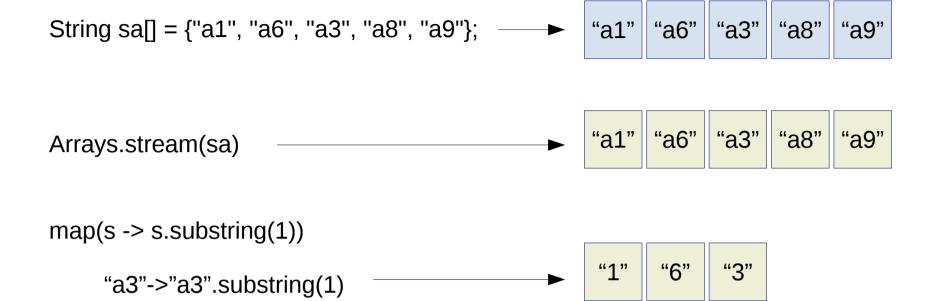
String sa[] = {"a1", "a6", "a3", "a8", "a9"}; 

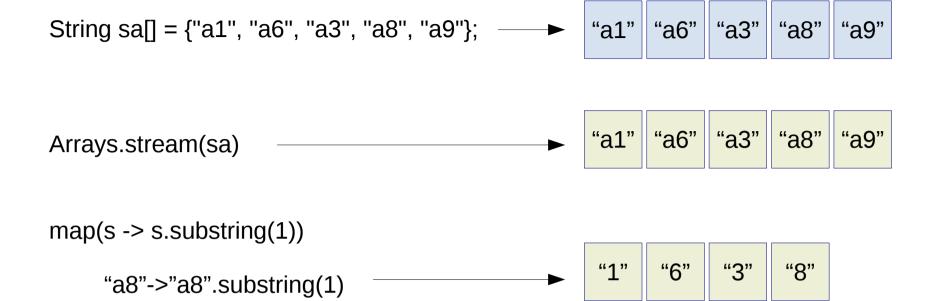
"a1" "a6" "a3" "a8" "a9"

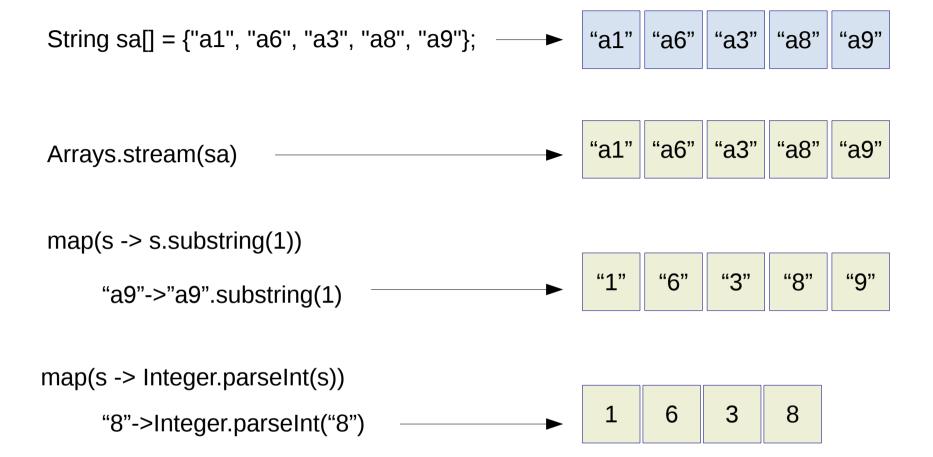
Arrays.stream(sa) 

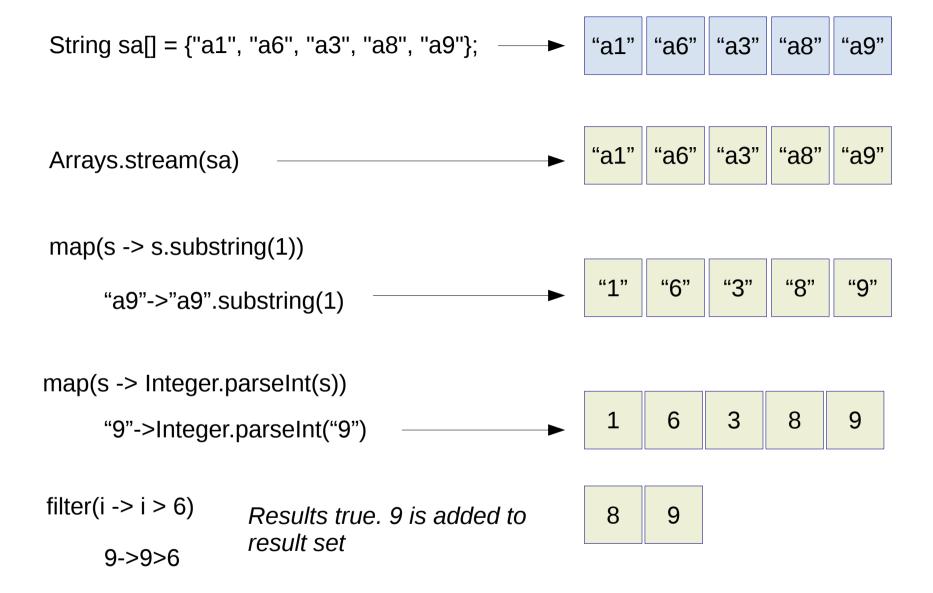
"a1" "a6" "a3" "a8" "a9"











```
String sa[] = {\text{"a1", "a6", "a3", "a8", "a9"}};
                                                         "a1"
                                                                "a6"
                                                                      "a3"
                                                         "a1"
                                                                "a6"
                                                                      "a3"
Arrays.stream(sa)
map(s -> s.substring(1))
                                                          "1"
                                                                "6"
                                                                       "3"
                                                                             "8"
                                                                                    "9"
      "a9"->"a9".substring(1)
map(s -> Integer.parseInt(s))
                                                                 6
      "9"->Integer.parseInt("9")
filter(i \rightarrow i > 6)
                                                           8
                                                                 9
                     Results true. 9 is added to
                     result set
      9->9>6
                                                           8
                                                                 9
reduce(0, Integer::sum);
```

8

9

Integer::sum is a BiFunction

public static int sum(int a,int b)

Initialize result with 0

8

9

Integer::sum is a BiFunction

public static int sum(int a,int b)

Integer.sum(0,8)

8

9

Integer::sum is a BiFunction

public static int sum(int a,int b)

Integer.sum(8,9)

8

9

Integer::sum is a BiFunction

public static int sum(int a,int b)

int summe