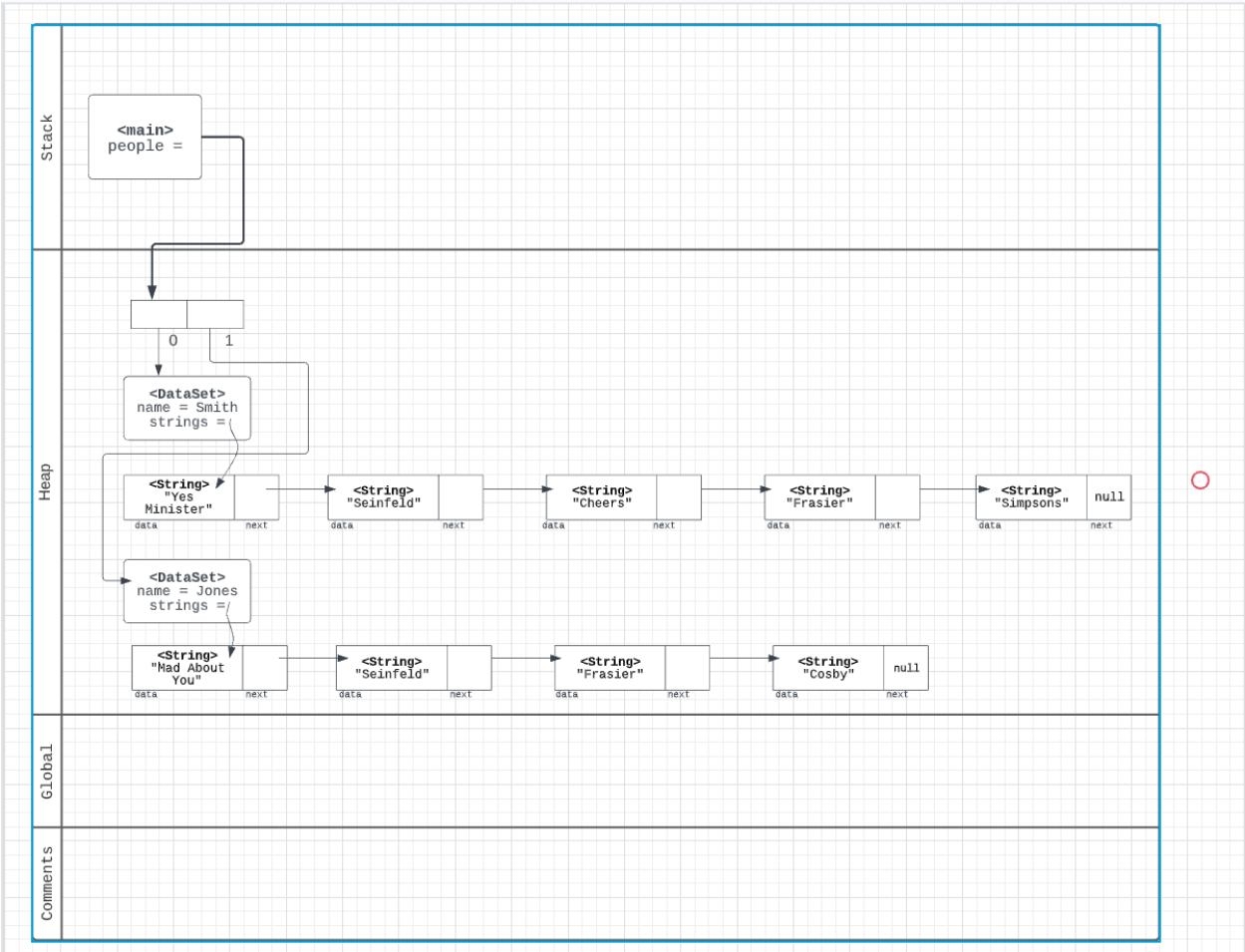
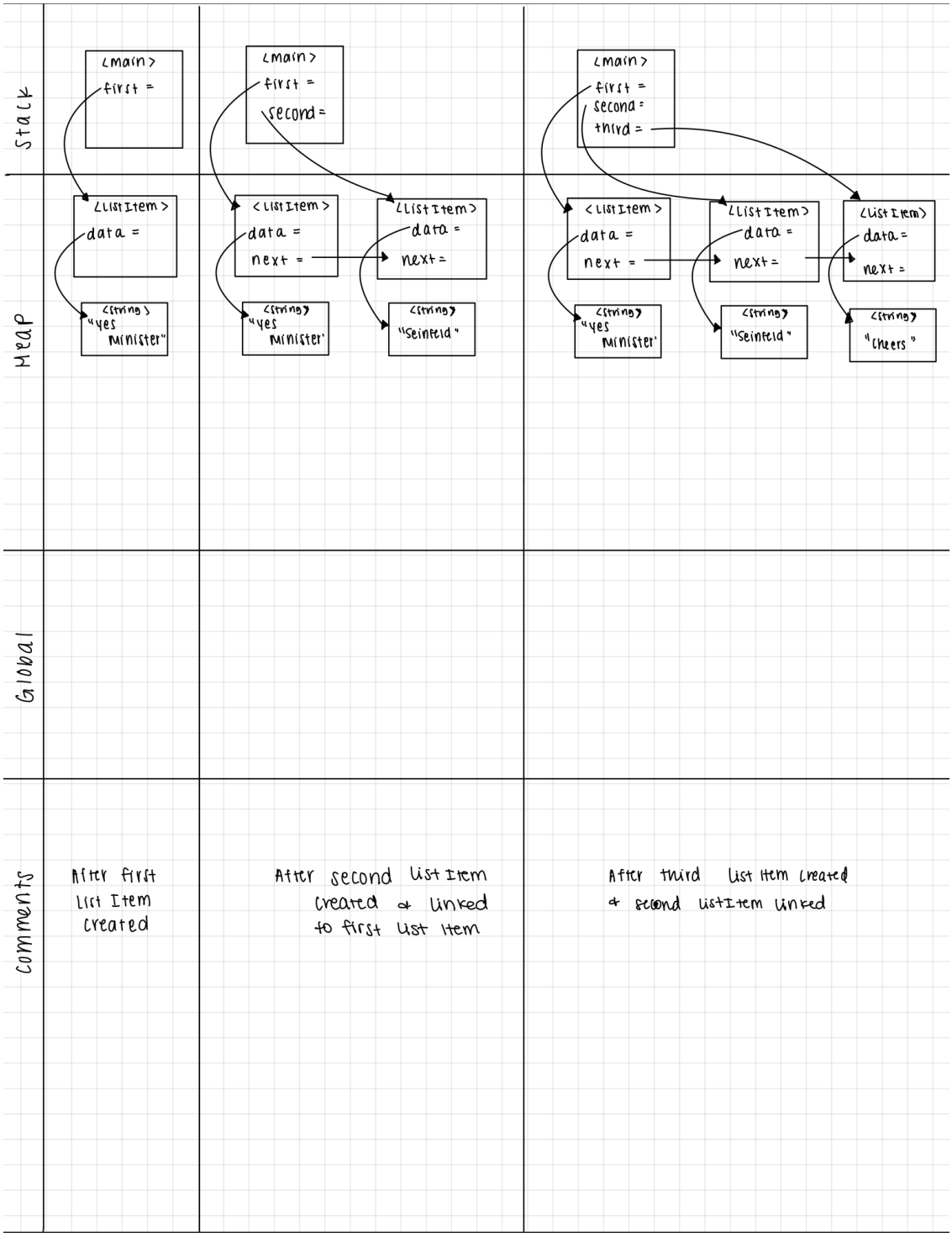
Exercise 3



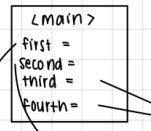
Exercise 4

```
public boolean contains(String s)
{
    //...
}
```

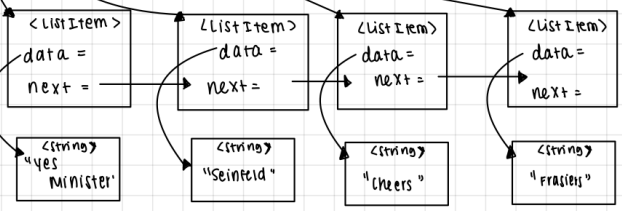
Exercise 6


Stack
Heap
Global
comments
<main>
first =
second =
third =
<ListItem>
data =
next =
<string>
"yes minister"
"Seinfeld"
"cheers"
After first List Item created
After second List Item created & linked to first List Item
After third List Item created & second ListItem linked

Stack



Heap

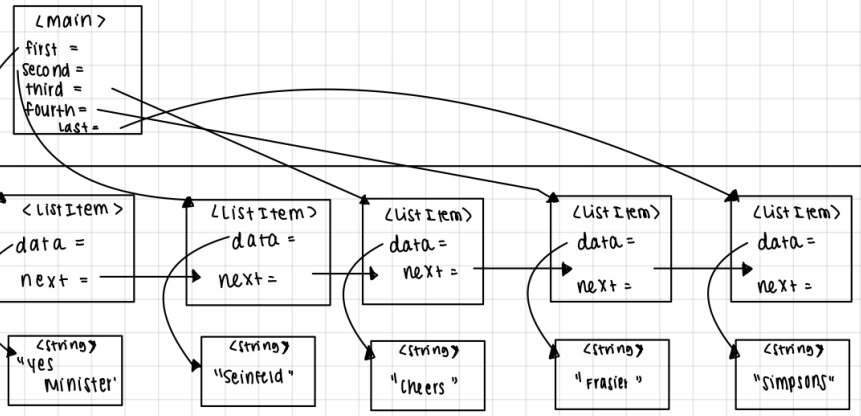


Global

Comments

After fourth listItem created and third listItem linked.

Stack



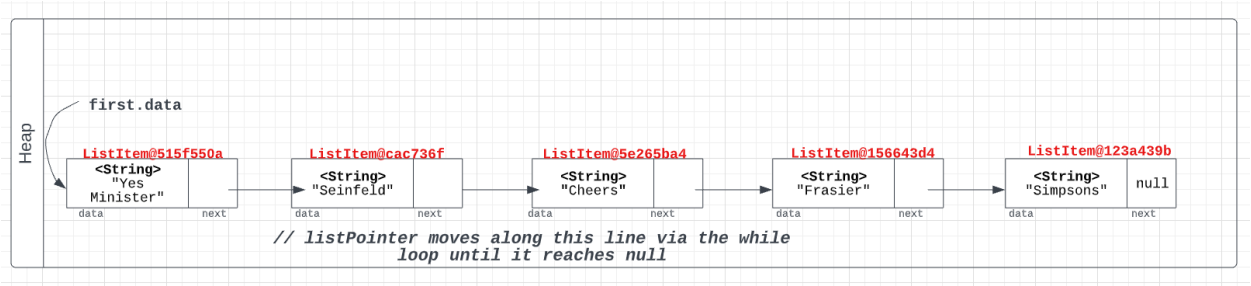
Heap

Global

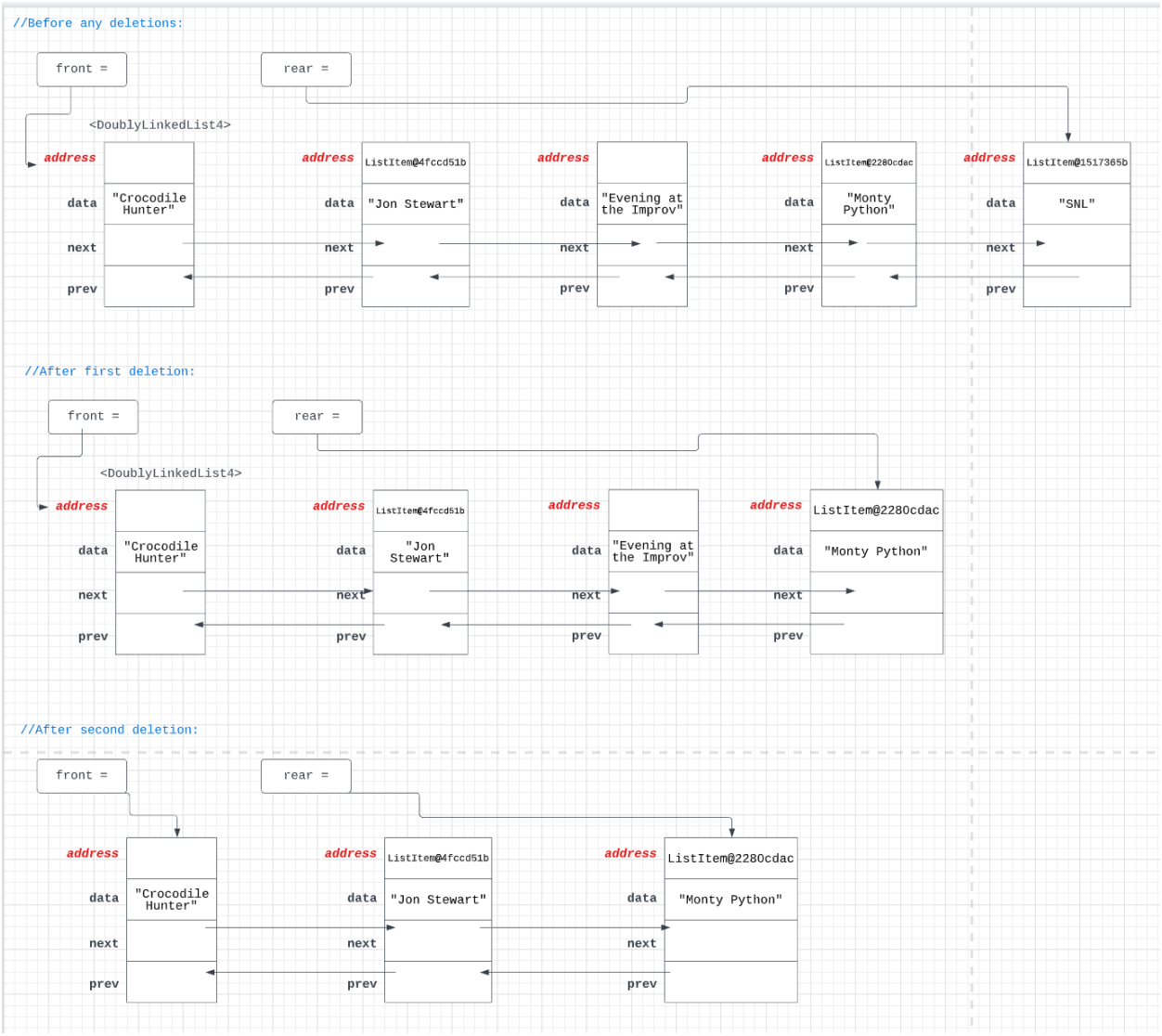
Comments

After last linked item is created.

Exercise 7



Exercise 12



Exercise 13

```
public void delete (string s)
{
    listItem current = front;
    listItem previous = null;

    if(current == null || current.data == s)
    {
       front = current.next;
       return;
    }

    while (current != null && current.data != s)
    {
       previous = current;
       current = current.next;
    }

    if(current == null)
     {
       return;
      }

    previous.next = current.next;

    listItem current2 = front;
    while(current2.next != previous)
    {
       current2 = current2.next;
    }

    if(previous == front)
    {
       previous = previous.next;
       return;
    }
    else if (previous == rear)
    {
       previous = null;
    }

    current2.next = previous.next;
}
```