

## Assignment 4 - Recursive Forum Posts

Each message in an on-line forum is captured with a unique message ID, a parent ID, and the text of the message. The parent ID is the message ID of another message to which a message is replying (see Figure 1). The first message will have a parent ID of 0, indicating that it is not replying to any message (i.e., it is a new discussion).

**There could be more than one discussion in a forum!**

Loops, beginner

This message would have a parent ID of 0

5

Hello I am a beginner in Java and had a question regarding Loops, the question in the book asks for The sum of all odd digits of n. (For example, if n is 32677, the sum would be 3+7+7=17.

I can't quite figure out how to code that, I am looking for someone to help me out. What I have is this code, well the first step, but I don't know how to complete it or whether I have it right or wrong.

Any help would be appreciated,

```
public class sumOfOddsInNumber
{
    public static void main(String[] args)
    {
        int n = 0;
        String value = String.valueOf(number);
        int length = value.length();

        while (n < length)
        {
            ... //Idk if this the right first step, how do I start it? where do i go?
        }
    }
}
```

java loops

share improve this question

asked Sep 2 '13 at 21:49

Can't see me

180 1 5 16

These messages are replying to the message above. Their parent ID would be the message ID of the message above.

It's not bad as a first step but where it's number defined? Have a look at the charAt method and consider using the mod (%) operator to determine if a digit is odd or even. – JohnMark13 Sep 2 '13 at 21:55

Ach! I totally misread this question. I thought you were trying to sum every odd number from 1 to n! Oops! – Airhead Apr 11 '15 at 15:28

Figure 1: Forum post example from StackOverflow.com

All messages are stored in a file in the following format:

**messageID|parentID|text**

where each message is on a separate line and the pipe ( | ) is a delimiter separating the fields.

### Task

**Note: All classes written for this assignment must include Java documentation comments.**

- (1) Create an appropriate class or set of classes to encapsulate the messages (e.g., a `Message` class)
- (2) Create an application (i.e., a class with a main in it, right?) where the messages are read in from a file named **"msg.txt"** and displayed in a nesting hierarchical structure that shows the relationship of the messages (i.e., each reply is displayed on a separate line, indented by 2 white spaces relative to the message being replied to)

Remember to document your code using Javadoc comments.

## Sample

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Given the following "msg.txt" contents:

```
1|0|Here's how you make the best slow cooker post roast you'll ever have!
Take 3-4 lbs of pot roast, 2 tbsp olive oil, 1 packet brown gravy mix, 1
packet italian dressing mix, 1 can Guinness beer (yeah baby!), 2 tbsp tomato
paste, 3 carrots, peeled and sliced, and 3 yukon gold potatoes, peeled and
diced. Heat oil in a large skillet over medium-high heat, add the roast and
brown on all sides (like 2 mins/side). Put it and all the rest of the stuff
in a slow cooker. Put it on low for like 8 or 10 hours.
2|1|This was the best! It was so flavorful!
3|2|Yeah it was flavorful... if you have no tastebuds!
4|1|Anyone no if can use Miller Lite instead
5|0|How to boil water. Put water in pot. Turn to high heat. DO NOT WATCH
THE POT.
```

The following output is produced:

Message #1: Here's how you make the best slow cooker post roast you'll ever have! Take 3-4 lbs of pot roast, 2 tbsp olive oil, 1 packet brown gravy mix, 1 packet italian dressing mix, 1 can Guinness beer (yeah baby!), 2 tbsp tomato paste, 3 carrots, peeled and sliced, and 3 yukon gold potatoes, peeled and diced. Heat oil in a large skillet over medium-high heat, add the roast and brown on all sides (like 2 mins/side). Put it and all the rest of the stuff in a slow cooker. Put it on low for like 8 or 10 hours.

Message #2: This was the best! It was so flavorful!

Message #3: Yeah it was flavorful... if you have no tastebuds!

Message #4: Anyone no if can use Miller Lite instead

Message #5: How to boil water. Put water in pot. Turn to high heat. DO NOT WATCH THE POT.

*This is a very short and simple example. It is **JUST AN EXAMPLE**. Your application should be able to handle any number of messages.*

## Deliverable

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Test your application (you can use the contents above if you like or make up your own!) and take a screenshot of a successful test.

Submit your Java source files and screenshot to the appropriate dropbox.