

## ReadingTracker.java

```
package loops_and_arrays;

import java.io.File;

public class ReadingTracker
{
    private Book2[] bookFileReader() throws FileNotFoundException
    {
        File file = new File("books.txt");
        Scanner input = new Scanner(file);
        int count = 0;

        while (input.hasNextLine() && input.nextLine().length() > 0)
        {
            count++;
        }
        Book2[] books = new Book2[count];
        input = new Scanner(file);
        for (int i = 0; i < books.length; i++)
        {
            String line = input.nextLine();
            String[] parts = line.split("\t");
            String title = parts[0];
            int numPgs = Integer.parseInt(parts[1]);
            boolean req = Boolean.parseBoolean(parts[2]);
            int bookmark = Integer.parseInt(parts[3]);
            books[i] = new Book2(title, numPgs, req, bookmark);
        }
        input.close();
        return books;
    }

    private void writeBookFile(Book2[] books) throws FileNotFoundException
    {
        File outfile = new File("books.txt");
        PrintWriter output = new PrintWriter(outfile);
        for (Book2 book : books)
        {
            output.println(book.getTitle() + "\t"
                           + book.getPageCount() + "\t"
                           + book.isRequired() + "\t"
                           + book.getBookmark());
        }
        output.close();
    }

    public void updateReadings() throws FileNotFoundException
```

```

ReadingTracker.java

{
    Book2[] books = bookFileReader();
    for (Book2 book : books)

    {
        checkCurrentPage(book);
    }
    writeBookFile(books);
}

private void checkCurrentPage(Book2 book)
{
    Scanner keyboard = new Scanner(System.in);
    System.out.println("For the book " + book.getTitle());
    boolean inputOK = false;
    while (!inputOK)
    {
        System.out.println("What page have you reached?");
        String line = keyboard.nextLine();
        Scanner lineAnalyzer = new Scanner(line);
        if (lineAnalyzer.hasNextInt())
        {
            int newPage = lineAnalyzer.nextInt();
            if (newPage < 1
                || newPage > book
                    .getPageCount())
                System.out.println("There is no such
page");
            else if (newPage < book.getBookmark())
                System.out.println("Bookmark is being
moved");
            inputOK = true;
            book.setBookmark(newPage);
        } else
            System.out.println("No input detected");
    }
}
}

```