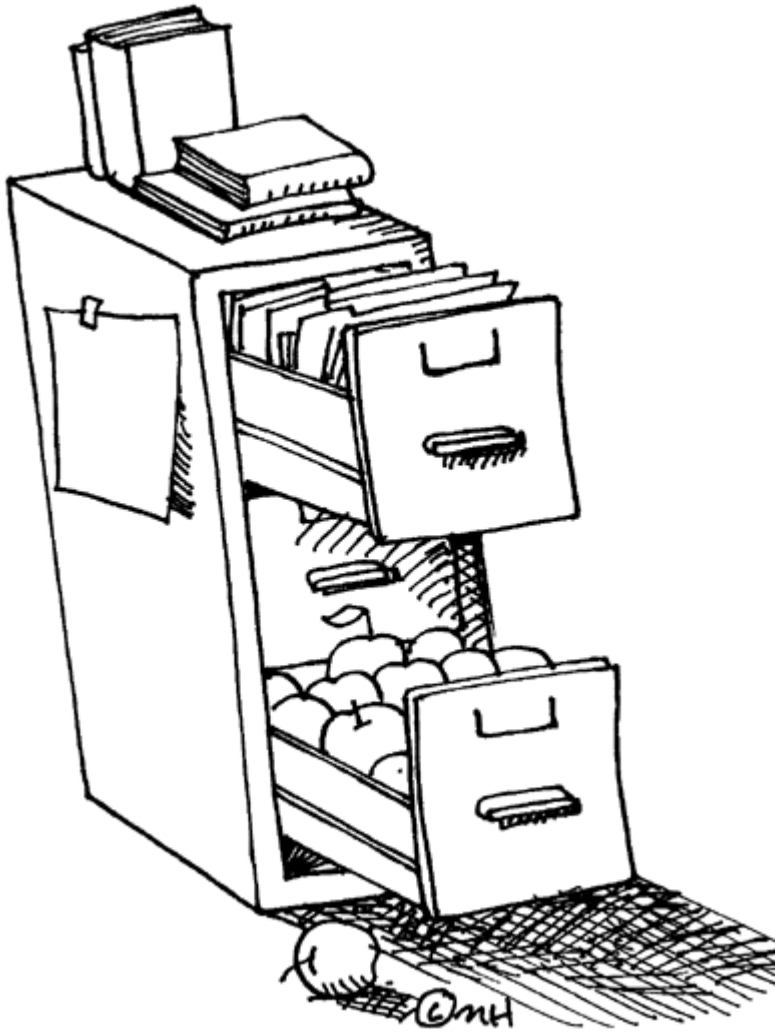
Input from Files

FileInputReader

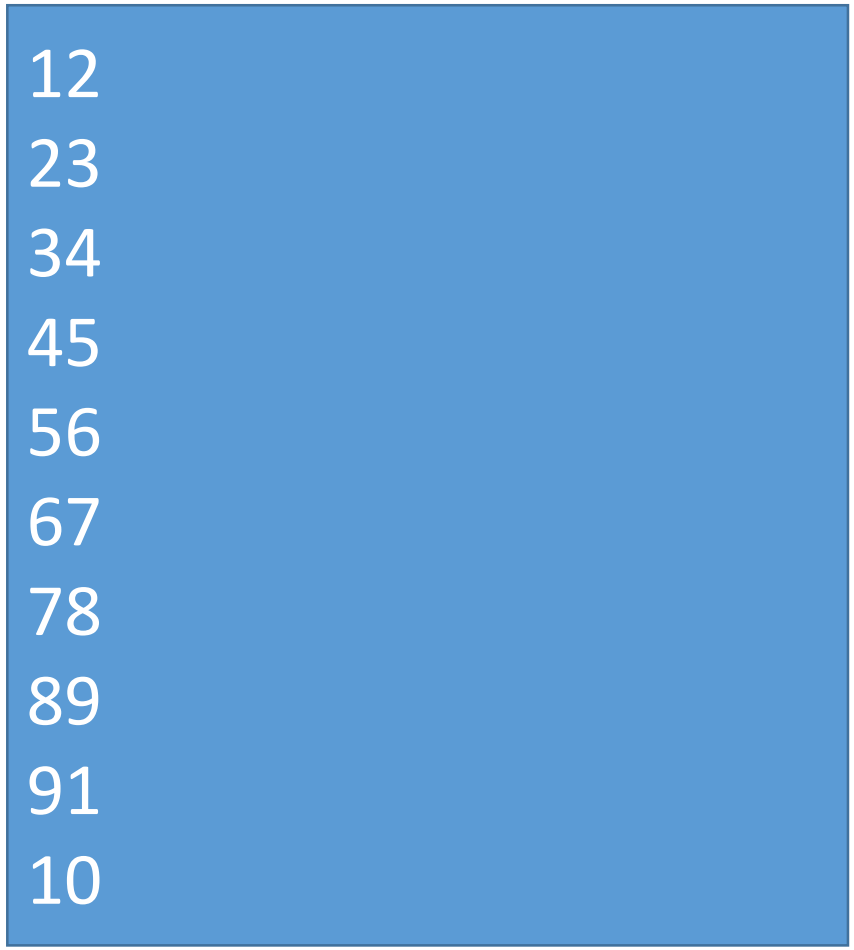


- Input from files is always int.
- The object we use is a FileInputReader
- They are really similar to a FileOutputStream, but they do the reverse.
- They also need a try/catch block and to be closed.

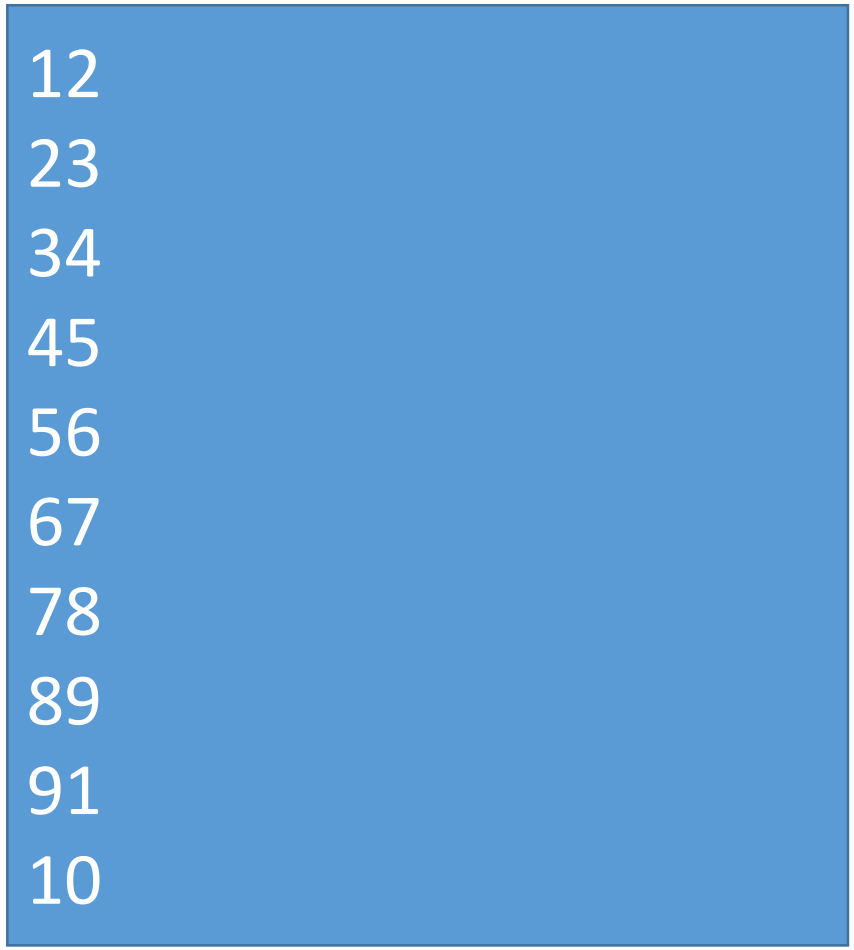
How does a File Reader work?

This is a file.
It has text in it.
The text can be read.
Line by line.
The program can …
… use the data.
Like open a saved file.
Maybe a high scores list.
Or some user settings.

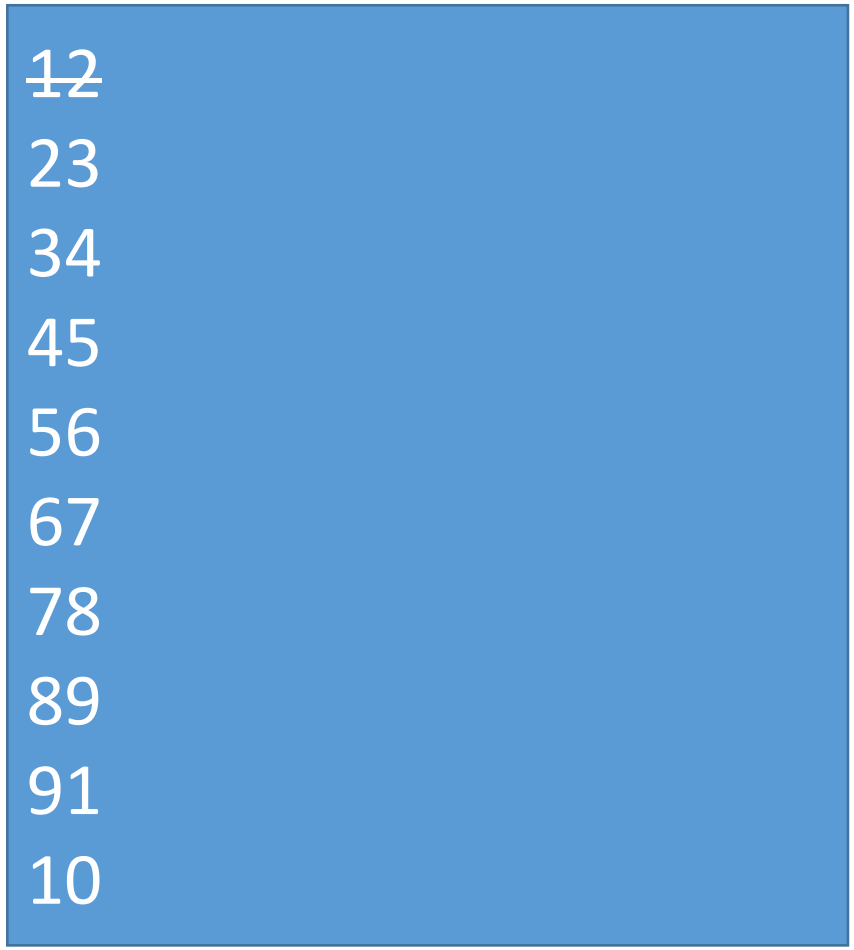
```
in.read();
```



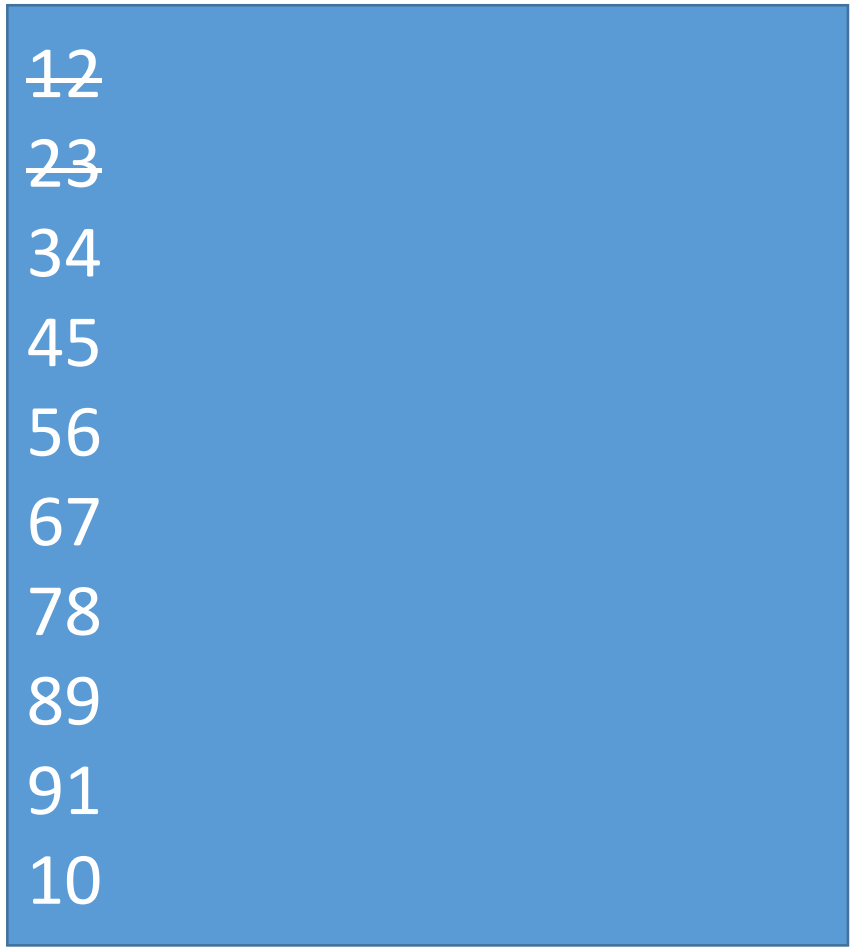
```
in.read();
```



```
in.read();
```



```
in.read();
```



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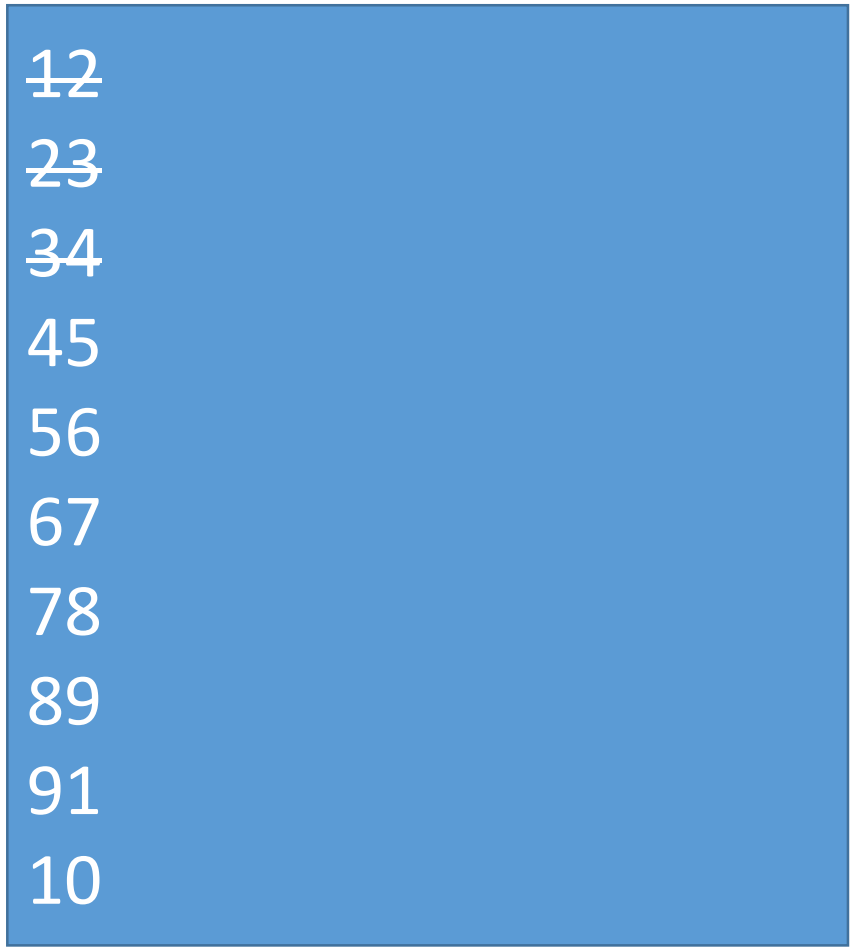
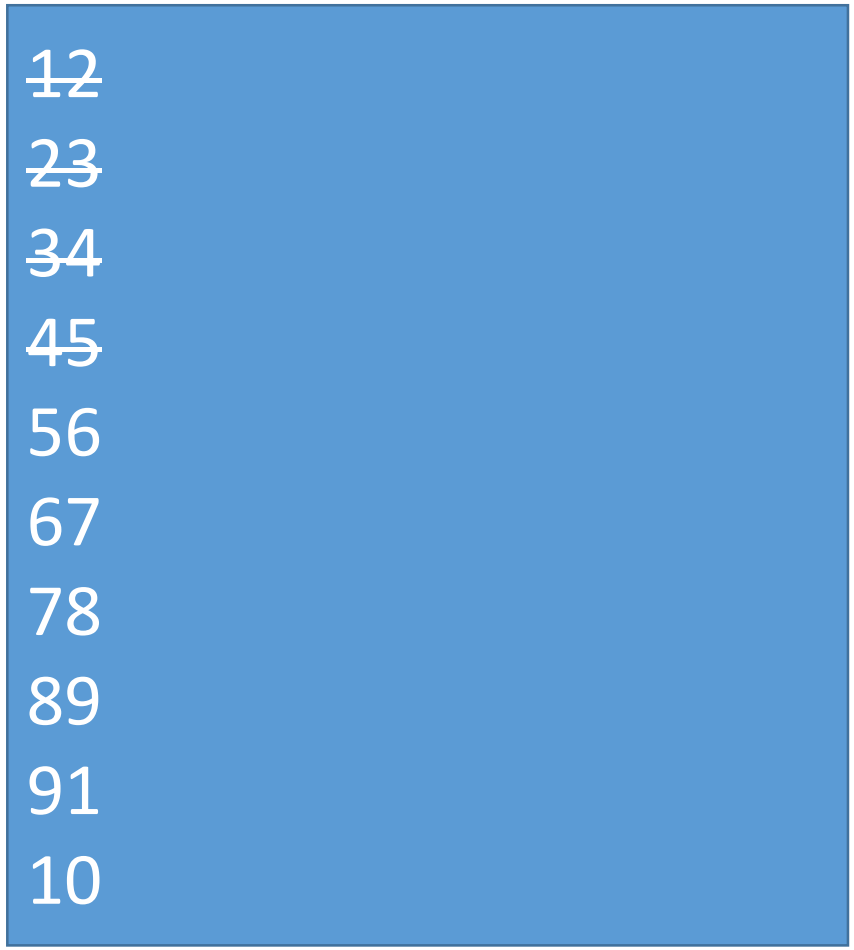
```
in.read();
```



45

```
in.read();
```



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```
public void open(){
    try {
        FileInputStream in = openFileInput("data.txt");
        String display="";
        for(int i=0; i<a.length; i++) {
            int data = in.read();
            display+=data+" ";
        }

        in.close();
        TextView words = (TextView) findViewById(R.id.words);
        words.setText(display);
    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }
}
```

```
public void open(){
    try {
        FileInputStream in = openFileInput("data.txt");
        String display="";
        for(int i=0; i<a.length; i++) {
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Open a FileInputStream.

```
public void open(){
    try {
        FileInputStream in = openFileInput("data.txt");
        String display="";
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            int data = in.read();
            display+=data+" ";
        }

        in.close();
        TextView words = (TextView) findViewById(R.id.words);
        words.setText(display);
    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }
}
```

Open a FileInputStream.

Send in the file name.

```
public void open(){
    try {
        FileInputStream in = openFileInput("data.txt");
        String display="";
        for(int i=0; i<a.length; i++) {
            int data = in.read();
            display+=data+" ";
        }

        in.close();
        TextView words = (TextView) findViewById(R.id.words);
        words.setText(display);
    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }
}
```

Open a FileInputStream.

Send in the file name.

Read in a single line.

```
public void open(){
    try {
        FileInputStream in = openFileInput("data.txt");
        String display="";
        for(int i=0; i<a.length; i++) {
            int data = in.read();
            display+=data+" ";
        }

        in.close();
        TextView words = (TextView) findViewById(R.id.words);
        words.setText(display);
    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }
}
```

Open a FileInputStream.

Send in the file name.

Read in a single line.

Close the file.