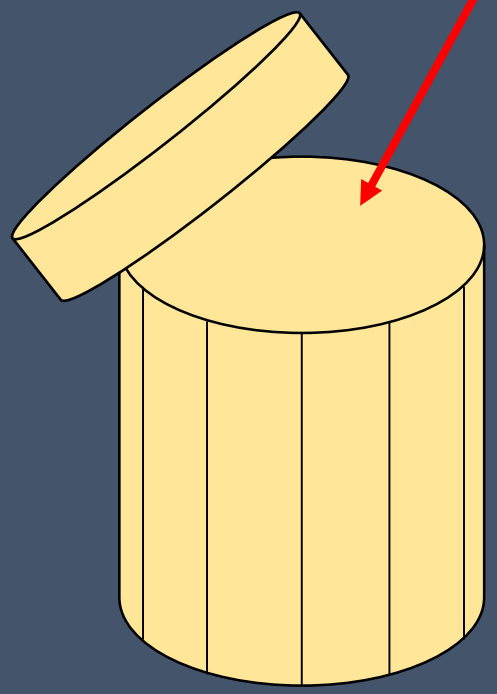
CMPSC 100

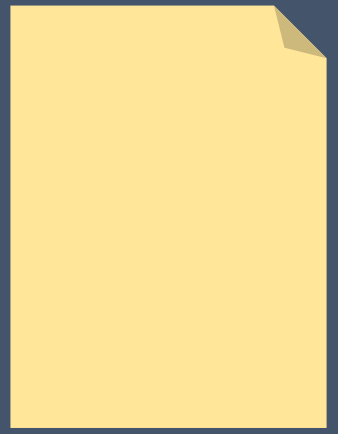
Computational Expression

THIS IS GARBAGE



cereals.list

THIS IS NOT



Computer Science principle

GARBAGE IN == GARBAGE OUT

```
git pull download master

cd to the 13-november directory
```

Guidelines

- Every 1ST value is the name of a cereal
- Every 2ND value is the price of a cereal
- Every 3RD value is the shelf which a cereal belong

We need to convert the “trash” data to useful data.

```
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileWriter;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Scanner;
```

```
/** Cleans up the data in "cereals.list"
 *
 * @author {Your Name Here}
 */
public class ShelveCereals {
```

```
/** Entry point.
  *
  * @param args The command line arguments
  */
public static void main(String[] args) {
```

```
File file = null;
Scanner input = null;
try {
  file = new File("inputs/cereals.list");
  input = new Scanner(file);
} catch (FileNotFoundException noFile) {
  System.exit(0);
}
```

```
int column = 0;
Cereal cereal = new Cereal();
ArrayList<Cereal> shelves = new ArrayList<Cereal>();
```

```
while (input.hasNext()) {
      String data = input.nextLine();
      switch(column) {
        case 0:
          cereal.setName(data);
          break;
        case 1:
          cereal.setPrice(Double.parseDouble(data));
          break;
        case 2:
          cereal.setShelf(Integer.parseInt(data));
          break;
        default:
          System.out.println("INVALID FIELD!");
      }
```

```
if(column == 2) {
    shelves.add(cereal);
    cereal = new Cereal();
    column = 0;
  } else {
    column++;
  }
}
```

```
    file = new File("outputs/cereals.csv");
    try {
      FileWriter writer = new FileWriter(file);
      for (int i = 0; i < shelves.size(); i++) {
        Cereal box = shelves.get(i);
        writer.write(box + "\n");
      }
      writer.close();
    } catch (IOException fileError) {
      System.exit(0);
    }
  } // while
  } // main
} // class
```