Opening & Reading a File
Method 3: Files

- For reference, java.nio.file.Files is a utility class that contains various useful file methods

- The static *readAllLines* method reads all lines from a file, into a List of Strings
```
File myFile = new File(pathToFile);
List<String> allLines = Files.readAllLines(myFile.getPath());
```

- This method puts everything into memory at once
  - It's good for small files
  - But don't use it if your file is large -- it's not very efficient

- You can treat the List of Strings like an ArrayList
```
//iterate over arraylist and print each line
for (String line : allLines) {
    System.out.println(line);
}
```

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- For reference, java.nio.file.Files is a utility class that contains various useful file methods

- The static *lines* method reads all lines from a file, as a Stream of Strings
  ```
  File myFile = new File(pathToFile);
  Stream<String> linesStream = Files.lines(myFile.getPath());
  ```

- This method does not read all lines of a file at once
  - It reads lines of a file as a Stream, line by line, as needed (for operations)
  - Use this if your file is large – it's more efficient

- You can access (and perform an action for) each element of the stream
  ```
  linesStream.forEach(line -> {
      System.out.println(line);
  });
  ```