

```
public static void main(String[] args) {
    File f = new File("data/kapital.txt");
    AbstractIOTest io;

    io = new IOTestLowLevel(f);
    System.out.println("LowLevel: " +
io.readInputFile() + " sec.");

    io = new IOTestMidLevel(f);
    System.out.println("MidLevel: " +
io.readInputFile() + " sec.");

    io = new IOTestHighLevel(f);
    System.out.println("HighLevel: " +
io.readInputFile() + " sec.");

    io = new IOTestLowLevelNoBuffer(f);
    System.out.println("LowLevelNoBuffer : " +
io.readInputFile() + " sec.");

    io = new IOTestLowLevelNoBuffer2(f);
    System.out.println("LowLevelNoBuffer2 : " +
io.readInputFile() + " sec.");
}
```

```
@Override
public float readInputFile() {
    stopwatch.start();

    FileInputStream fis;
    BufferedInputStream bis;
    StringBuffer sb = new StringBuffer();

    try {

        fis = new FileInputStream(inputFile);
        bis = new BufferedInputStream(fis);

        int c;
        while((c = bis.read()) != -1){
            sb.append((char)c);
        }

        bis.close();

    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }

    return stopwatch.stop();
}
```

```
@Override
public float readInputFile() {
    stopwatch.start();

    FileReader fr;
    BufferedReader br;
    StringBuffer sb = new StringBuffer();

    try {

        fr = new FileReader(inputFile);
        br = new BufferedReader(fr);

        String line;
        while((line = br.readLine()) != null){
            sb.append(line);
        }

        br.close();

    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }

    return stopwatch.stop();
}
```

```
@Override
public float readInputFile() {
    stopwatch.start();

    Scanner scan;
    StringBuffer sb = new StringBuffer();

    try {

        scan = new Scanner(inputFile);

        while(scan.hasNextLine()){
            sb.append(scan.nextLine());
        }

        scan.close();

    } catch (FileNotFoundException e) {
        e.printStackTrace();
    }

    return stopwatch.stop();
}
```

```
@Override
public float readInputFile() {
    stopwatch.start();

    FileInputStream fis;
    StringBuffer sb = new StringBuffer();

    try {

        fis = new FileInputStream(inputFile);

        int c;
        while((c = fis.read()) != -1){
            sb.append((char)c);
        }

        fis.close();

    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }

    return stopwatch.stop();
}
```

```
@Override
public float readInputFile() {
    stopwatch.start();

    FileInputStream fis;
    String s = "";

    try {

        fis = new FileInputStream(inputFile);

        int c;
        while((c = fis.read()) != -1){
            s += (char)c;
        }

        fis.close();

    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }

    return stopwatch.stop();
}
```