Coding Challenge Instruction for Birst Engineering Positions

Coding requirements

1. Maximum time permitted is 2 hours
2. You are free to use any programming language of choice including Java, C# and likes
3. The code consumes program input through command line and print the results to standard output.
4. Ideally, you should support the code with appropriate unit or functional test cases using a test framework of choice (TestNg, junit, nunit are all acceptable)

Our criteria to review your completed code

1. In terms of attacking this problem, **make sure you address the basic problem first followed by unit/functional tests**. If you still have time, you can address the problems defined in the bonus section
2. At a minimum, your code should solve the basic problem satisfactorily and have a few unit tests to cover your code
3. Stick to your coding style, whatever that is, but please use it consistently. It makes the code more readable and reviewable by our team.
4. No need for over-commenting, code should speak for itself. However, if you are doing any complex processing, feel free to add comments as appropriate.
5. Even though one may solve this problem by writing a single function, **please show us your OO design capabilities.**
6. How well will your code scale?

Notes

1. Feel free to use anything that come packaged in the JDK; java.util, java.lang, etc.
2. If you use any third party libraries include the jar files in you zip or use a build system that can pull them automatically.
3. Show us your skills! Don't over-engineer to the point that you can't finish; pick a design that you are comfortable with and execute on that. We want to see what you can do well.
4. **When submitting your code, please submit the whole project directory.**