week 8 - recap exercise

Derek's robotic company wants to release their brand new robomimetm. It looks cute and it does everything you tell it to. What else can a consumer ask for? You just have to get your robomimetm app, click on the tricks you want and press go. Your robomimetm will receive them and start performing them for you.

Everything is almost finished... Except for the communication part.

Part 1

Develop the *Sensor* of the robomimetm so that when it receives the encrypted tricks from the app, it returns a list of String representing the tricks.

Have in mind the following:

- Use the *robomime.txt* file to simulate the wireless communication.
- Reuse the FileReader class.
- Create meaningful unit tests.

Three possible decryption strategies:

- If the line contains any! symbol, remove them.
- If the line contains any & symbol, remove them and reverse the text.
- If the line contains any # symbol, remove them and also remove all robomime words.

Hints:

- Use polymorphism with an interface to simplify the solution.
- > Every line in robomime.txt is one trick polluted with many unnecessary symbols.
- > Each symbol belongs to one decryption strategy. You only decrypt using the right strategy for that line.

Part 2

The robomimetm also keeps statistics of its own usage. Develop the *Archive* of the robomimetm so that when it receives a list of String representing the tricks it displays the number of unique tricks it received and also their names. Create meaningful unit tests.

Number of unique tricks: 5

Tricks: [touch the mirror, climb a ladder, grab a rope, robot dance, struggle against the wind]