

## *The Crosswords – 3 Letter Words*

### *DATA :*

*The associated files 3LetterWords.\* are identical in content. They do only vary in their format.*

*The files contains a lot of “words” of 3 letters. It is upper- as well as lower-case letters and special characters.*

### *EXERCISE :*

*I: Design and implement a Java program, which can :*

- a) read in these words*
- b) filter them to a standard (f.ex. no special chars, all lowercase, ...)*
- c) write to new file so they are unique and easy to search in. You are welcome to include further information.*

*II: Design and implement a Java program, which use the result file from I: to find 3 letters cross word puzzles, where each letter is unique.*

*The implementation can make the most use of Java different datastructures f.ex. from the Collection classes.*

*III: Repeat II: but this time, with class(es) made by you through inheritance.*

*That is - rethink your solution from II : and extract which services YOU want from this new class(es).*

*IV : How many different crosswords are your program capable of ?  
How much time does it take ?*