# Tutorial Week 10 - Revision

Overview of things to consider:

1. Overlaps: How to find the overlap between $y$ and $x$, when you have a string matching algorithm?
2. Boyer-Moore: Remember the $DA$ (bad-character) formula as well as the code to implement this.
3. Boyer-Moore: Remember how the BM algorithm works, when considering both $d$ and/or only $DA$.
4. String matching automata: Represent forward and backward arcs. Remember bounds (with examples for worst case)
5. String matching automata: Look at the maximum and minimum number of comparisons
6. String matching automata: Proof of upper bound for the backward arcs (an example reaching this bound)
7. MP/KMP: Calculate MP and KMP tables!!!!
8. MP/KMP: Look at the maximum and minimum number of comparisons
9. Skew Algorithm: Think about the rankings and the way you construct the Skew Algorithm (the 0 and 1 = mod3 construction).
10. Dictionary matching: Draw trie for a set of patterns
11. Dictionary matching: The failure function/ link represents the longest proper suffix of the pattern matching with Pref($X$). How do you find the optimised failure links?