

Exercises for DW & DM

Sheet 10 (until 25.06.2008)

Please note that you need **50%** of all exercise points to be admitted for the final exams. Exercises have to be turned in until **Thursday** before the next lecture and should be completed in teams of two students each. Write both names and “Matrikelnummer” on each page. If you have multiple pages, staple them together! Please hand in your solutions on **paper** into the mailbox at the IFIS floor or to our secretary (Mühlenpfordtstraße 23, 2nd floor). You may answer in either German or English.

Exercise 1 (15P)

1. Simulate the functionality of the GSP mining algorithm on the transactions provided in Annex 1, considering a min_sup of 2. (15P)

Exercise 2 (7P)

1. What are time-series? (1P)
2. Calculate the moving average of order 4, (MA(4)), of the following dataset: 4,38; 4,19; 4,65; 6,40; 6,26; 13,51; 4,19; 8,41; 6,50; 8,43; 9,87; 9,56; 6,57; 9,03; 10,18 and then represent the two lines (the dataset and the MA) in a chart. (3P)
3. Shortly present the “Whole matching” method of similarity search. (3P)

Annex 1

SID	Sequence
1	<(dc)b(ac)>
2	<bc(bac)>
3	<(ab)a>