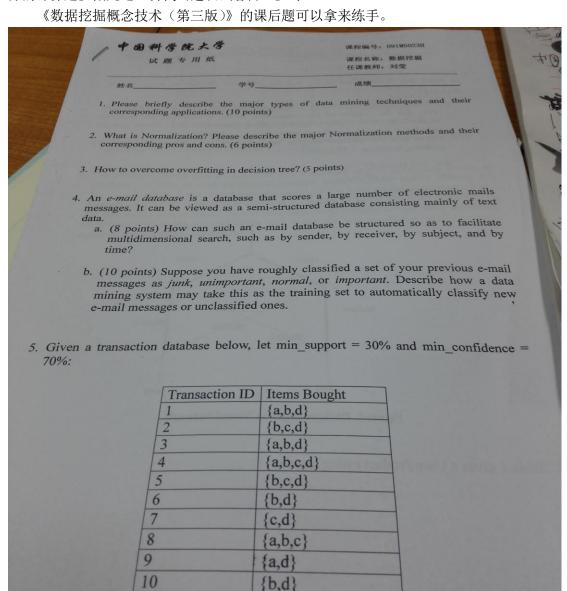
2017年的题目跟往年的题目相比,题型变化比较大,只有第5题和第8题是往年的。

计算量不算很大,但是由于平时相关的题目做得不多,所以会手生,算起来比较慢,**100**分钟做不完。

想争取高分的可以提前把数据仓库(数据立方体,星状图),分类(Grain 信息增益决策 树归纳,朴素贝叶斯,神经网络),聚类(K-means),频繁挖掘(Apriori,FP 树)这几个部分的计算题多做几遍,伪代码建议试着自己多写一些。



Find all frequent itemsets using FP-growth method. Write up the condition pattern base for each item, and the conditional FP-tree for each item. (15 points)

6. Figure 1 is a BP (Backpropagation) Neural Network. The learning rate I=0.9, the B_{1a_0} at every unit is initialized as 0, and the activation function at every unit $B_1(x)=1$, X=1 a. Given a training record (x_1, x_2, x_3) where the input $X_1=1$, $X_2=0$, and the class labely at every unit $B_1(x)=1$, $B_1(x)=$

Figure 1. Backpropagation Neural Network

x2=0

7. Table 1 gives a User-Product rating matrix.

