

## DM19 – Fall06 – Weekly note 5

### Announcement

There has been some dissatisfaction with the room U20 so there will be a new room assignment for the exercises as follows:

- Weeks 41, 45 and 47-51 will be in room U49C
- Weeks 43-44 will still be in U52
- Week 46 will be in U58

### Stuff covered October 4, 2006

- Fibonacci Heaps. Chapter 20.
- I briefly introduced Huffman codes. Chapter 16.3. **AND I said something wrong: I said that optimal prefix codes always come from balanced binary trees. This is absolutely wrong as one of you remarked after the lecture! What I should have said (and what will be clear from the next lecture) is that they always come from full binary trees, where each non leaf has 2 children.**

### Exercises October 10, 2006

- 20.2-4 page 488.
- 20.4-1 page 496.
- Problems 20.1 and 20.2 a on pages 496-497.
- Remaining exercises from previous weeks.

### Lecture October 11, 2006

- Huffman Codes. Chapter 16.3 .
- String Matching. Chapter 32.