

## 600.363 (Intro Algos)-463(Algos I)

### Topics Topics for MidSem2 Examination

1. The examination is a cumulative examination. That is, the topics covered before the first examination are included for the second examination. In addition, the following topics are included.
2. 2,3,4-trees
3. Red-Black trees
4. Priority queues
5. Union-Find
6. Topological sorting
7. Minimum spanning trees
8. Strongly connected components

### Specific new Sections and Subsections

1. 2,3,4 tree version of subsections 18.1, 18.2, 18.3
2. Subsections 13.1,13.2, 13.3, 13.4
3. Subsection 6.5 (only Inserts and Extract mins)
4. Section 21 (only  $n \log^* n$  version)
5. Subsections 22.1, 22.3, 22.4, 22.5, 23.1, 23.2