

The final will test material covered in lectures 1 through 26.

Specific skills that may be tested include (the following list may not be exhaustive):

- 1.** All skillsets from Midterms 1-3
- 2.** Turing Machines
 1. Understanding state diagrams.
 2. Closure properties of languages recognized by TMs.
 3. Different types of TMs and how they reduce to one-another.
- 3.** Minimum Spanning Trees
 1. Safe/unsafe edges.
 2. Boruvka's, Kruskal's, and Prim's algorithms.
 3. Manipulating minimum spanning trees.