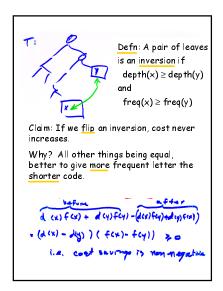
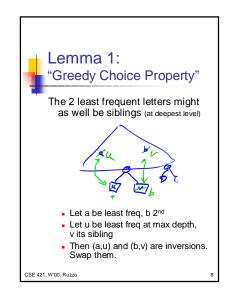


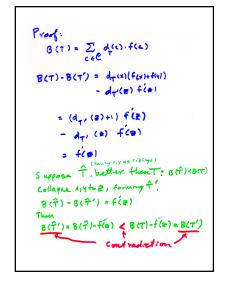
```
Correctness Strategy

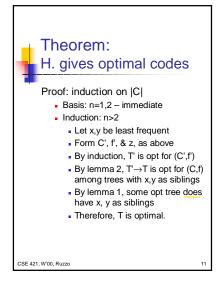
Optimal solution may not be unique, so cannot prove that greedy gives the only possible answer.

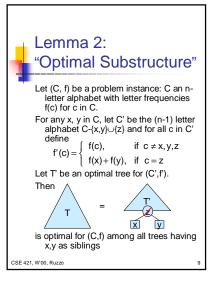
Instead, show that greedy's solution is as good as any.
```













- Huffman is optimal.
- BUT still might do better!
 - Huffman encodes fixed length blocks. What if we vary them?
 - Huffman uses one encoding throughout a file. What if characteristics change?
 - What if data has structure?E.g. raster images, video,...
 - Huffman is lossless. Necessary?
- LZW, MPEG, ...

CSE 421, W'00, Ruzzo