Lecture 18

* HW6 posted

Done with LPs/SIMPLEX

-> Do look at the phase 1/Crash codes. (you may need them for HW!)

post questions on Piazza.

Algorithms for unconstrained optimization

- line search
- trust region
- simplifying notation

```
Line search alg overview
```

Descent direction

… into problems with guaranteeing descent/convergence…

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Line search methods pseudo-code

While not done (i.e. the gradient is still large)

Pick p as the search direction

Find alpha as a step length along p

Move x = x + alpha*p
```