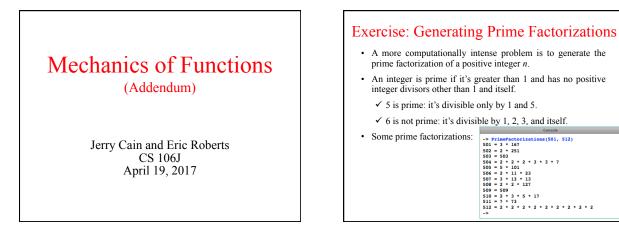
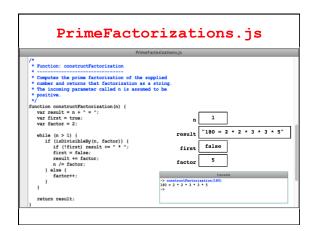
Mechanics of Functions (Addendum)





PrimeFactorizations.js

Some thought questions and exercises:

- The solution relies on a single Boolean called **first**. What problem is **first** solving for us?
- During our trace of constructFactorization(180), factor assumed the values of 2, 3, 4, and 5. 2, 3, and 5 are prime numbers and therefore qualified to appear in a factorization? How does the implementation guarantee 4 will never make an appearance in the returned factorization?
- What is returned by constructFactorization(1)? How could you have changed the implementation to return "1 = 1" as a special case return value?
- Trace through the execution of constructFactorization(363) as we did for constructFactorization(180).
- Our implementation relies on a parameter named n to accept a value from the caller, and then proceeds to destroy n by repeatedly dividing it down to 1. Does this destruction of n confuse PrimePactorizations's for loop? Note that its counting variable is also named n.

