Quick Review

- · Polynomials can be represented two ways L> Coefficients: e.g. x²+2x+1
 - L> Pointwise: P has degree 2, P(0) = 1, P(1) = 4
 P(-1) = 0.
- · Coefficients >> Paintwise: Plug in numbers.
- · Pointwise -> Coefficients: Interpolation
 - Ly Write P as a linear combination of basis polynomials
- · Polynomials over Finite Fields (i.e. GF(p))
 - 4) All coefficients are integers between 0 and p-1.
 - Ly Interpolation still works (use inverses instead of division though)
 - Degree of a polynomial is bounded by P-1 (consequence of FLT).
- Can take advantage of coefficient/pointwise representation to do secret-sharing
 - 4> Make P a secret.
 - La Gire each person deg(P) and P(i)
 - La Only have the polynomial when deg (P) people come together.