Polynomial Evaluation: $f(x) = a_0 + a_1 x + a_2 x^2 + \cdots + a_d x^d$ $=\sum_{i=0}^{\infty}\alpha_{i}x^{i}$ Say all $\alpha \in \mathbb{Z}$, then $f: \mathbb{Z} \to \mathbb{Z}$. Quastion: how to efficiently compute of? That is, for $x \in \mathbb{Z}$ how to find f(x)? $\in S$, $f(x) = 1 + 2x + 3x^2$. then if x=1, f(x) = 1+2.1 + 3.12 = 6 How to represent I with CCH datalypes? All information is in the list of coeffs. So are could use a voctor or an array. int polyEval (redx < int x) ? int sum = 0; for (int; =0; i < a. 5; 20(); itt) (sum to aci) x pow(x,i); from (conth) votora sun; Say for now that pow (x;) talos ~ i multiplications.



