bound estimate Simplification Reys = 1-7 (1-Rpi) Rp = RA, RB, Re, RD = R4 $R_{P_2} = R_A \cdot R_E \cdot R_D \cdot R$ Rf3 = RF. Re. RD = R3 Roys = 1- (1-R4) (1-R3) (1-R3) Rsys < Rsys

R n-out-of-N =
$$\sum_{i'20}^{N-M} P_i(i' \text{ components failing})$$

N-H

 $\sum_{i'20}^{N-M} C(N,i) (1-Rm)^i Rm$

N $\rightarrow (\text{constant})$

N $\uparrow (\text{vicreases})$

R $\vdash \text{nout-of-N} \downarrow (\text{under the realistic case that } Rm \neq 1)$

KLOC $\downarrow 0000 \text{ livies of code}$

A bugs/KLOC.

RTMR, $\downarrow R^3 + C(3,2)R^2(1-R)$
 $\downarrow R^3 + 3R^2(1-R)$
 $\downarrow R^3 + 3R^3 +$