We firstly prove bound on 11 v - V 11: nv*-マル = ハナン* + デントミルナ* マナーナンルナルテレヤーテン*! < 1117 - PV11-711V7-0-11 By solving this inequality with respect to 11 vx - VII we deduce 11 V*-VII & Y b !! (P-P) V" !! By Hoeffding's inequality to bound I (P-P) V (x) | for all x = X in hìgh probability ? $|P(|(P-\tilde{P}))^*|(\kappa)| \ge 2 \le 2e^{-\frac{N\epsilon^2}{262}}$ We deduce |P(||(P-P)) \uparrow $|| > \epsilon) <math>\leq 2 || > 1 || = 262$ then define 8 es $\left(-\frac{N\epsilon^2}{2b^2}\right)$ lee By plugging lost two (in) equalities we deduce 1P[11P-P)V 11 < by 10(21X1)/N] > 1-8 (in our situation b=1, as UR is in Eo,D)