+ e cn. Gen. CX cn. Gen?

Lo fax Et4 Et + gan e USMERUMO 3cx = t4 - 1x = = 4 + + xo an. Gen => (x e on. Gen.

6 4 X+ Y CEG = 1 X C t- YG = = U 1x2g2t-44 = HERARGO OF PAYVOHRAND

= U 1×cg4 nl yct-744 € +

the marre spains Co Cengane wards 2, 20 (Hero goro 36ame, 2e gbeut augenm (a 0 + = 1 U Ha mismoon et.

où Harse closuits



Loro zair envir Go, re 14 e cn-Gen

4-14=19=1w = 2:1+1w)=14=HEA 1 1H = 0 4 - 1 WE SL: 1HIW) = 0 4 = HCE + => 1+ c cr. Ceruzura.

Y - # wypu

Jx14 =?

$$Y = 2 - X$$

19x41 = 1

$$(ou|X_1Y) = (ou|X_12-X) = (ou|X_1X) - (ou|X_1X) =$$

= 0 - DX = -DX

$$\forall x, y = \frac{(\omega(x, y))}{\sqrt{Dx}} = \frac{-Dx}{\sqrt{Dx}} = -1$$

XII Y y~ belp/

$$||P|| \min\{x, y \in \mathbb{Z} \times \mathbb{Z} = |P| \times \mathbb{Z} \times |Y \geq x| = 1 - |P| \times |Y| = |Y| = |P| \times |Y| = |P| \times |Y| = |Y$$

LO PIMOX
$$\{X, Y, Y \in \mathbb{K}\} = \mathbb{P}[X \subset \mathbb{K}, Y \subset \mathbb{K}] = \mathbb{P}[A - \mathbb{P}[X \geq \mathbb{K}]/\mathbb{P}[A - \mathbb{P}[Y \geq \mathbb{K}]] = \frac{1}{2} - \frac{1}{4} - \frac{1}{4}$$

1 th, ..., In ind conten

Lmax: = max 2+1, -, +19

+min' = min 2+1, --, xn4

LA FX max (x) = P(X max &x) =

= Pl+nex, x2ex, ..., Ynex) = Pl+nex) Pl+2ex) -- Pl+nex

- (PI+1EX))

Lofxmin(x) = P/xmin Ex)=

1- P1+1>x,.., /n>x) = = 4P 1- P (xmin > X) =

1- (1- FXN (X)) h = 1 - (18/4 >x)) =

- Мовар ваць фис на слугай на вель гина ч чоной ан йх е О, защой коной ангили не варирай ⇒ (oul x,2) = 0
- -0 (ou(X1X) DX r robapuay suia +9 cn. Gen. (60 ranawa)
 re Secur e gueneparçuic +10 wasu
 Cenurutto
- Линейноси но ковориациямо (oul x+2, y) = (oul x, y)+(oul z, y)
- + gorosamenailes + Koun-Weepy
 - A 191x,4) (4
 - порения с уенирираний и нормиранийе
 - $0 \le \mathbb{E}[[X \pm Y]^2] = \mathbb{E}[X \pm 2 \mathbb{E}[X + \mathbb{E}[X]^2] = 1 + 2 \mathbb{E}[X,Y] + 1 = 2 + 2 \mathbb{E}[X,Y] = 2[1 \pm \mathbb{E}[X,Y]]$
 - 0 < 2 (1 ± 3 | x, y)) 0 ~ 2 ≤ 1 ± 3 | x, y) 1 ≥ | 3 | x, y |
 - 171x17)1=1
 - $1 \subseteq \mathbb{Z}[X \pm Y]^2$ = $\mathbb{Z}[X \pm 2 \mathbb{Z}[X + \mathbb{Z}[Y]^2] = 1 \pm 2 \mathbb{Z}[X + \mathbb{Z}[Y] + \mathbb{Z}[Y]^2 = 1 \pm 2 \mathbb{Z}[X + \mathbb{Z}[Y] + \mathbb{Z}[X + \mathbb{Z}[Y] + \mathbb{Z}[Y] + \mathbb{Z}[X + \mathbb{Z}[Y] + \mathbb{Z}[Y] + \mathbb{Z}[Y] + \mathbb{Z}[X + \mathbb{Z}[Y] + \mathbb{Z}[Y] + \mathbb{Z}[Y]^2 = 1 \pm 2 \mathbb{Z}[X + \mathbb{Z}[Y] + \mathbb{Z}[X + \mathbb{Z}[Y] + \mathbb{Z}[X] + \mathbb{Z}[X] + \mathbb{Z}[X + \mathbb{Z}[X] + \mathbb{Z}[X]$
 - $1 = 211 \pm 3(x, Y) = 2$ $2 = 1 \pm 3(x, Y)$ 2-1 = 13(x, Y) = 2 1 = 13(x, Y) = 2 1 = 13(x, Y) = 2

$$9x15) = \# \left[\# \left[\$X \mid N\right]\right] = \underbrace{\# \left[\$K \mid N=n\right]}_{K=0} \mathbb{P}[N=n] =$$

$$= \underbrace{\# \left[\$p+11-p\right]}_{K=0} \mathbb{P}[N=n] =$$

$$= \left[\$p+11-p\right]_{S} \mathbb{P}[N=n] =$$

in in a ind on-ben.

1 max = = max 1+1, --, +n4

Xmin := min 4+1, ..., 444

Uspaseux: finax u fixmin npes Fx1

$$F_{x max}^{(x)} = P(x_{max} \leq x) =$$

$$= P(x_1 \leq x_1, \dots, x_n \leq x) = P(x_1 \leq x) P(x_2 \leq x) \dots P(x_n \leq x) =$$

$$= (P(x_1 \leq x))^n$$

Fxmin(x) = P(xmin = x) = = 1- P(Xmin > x) =

 $= 1 - |P| \times_1 > \times_1, \dots, \times_n > \times) =$ $1 - |P| \times 1 > x)$

= 1- 11- Fx(x))"

41 2 Bin (mp) 12 2 Bin (n2,p)

> X14 X2 X1++2 n? - pasapegenerueuro no cynamic?

gxn+42 (S) = g+15/ *g+2(S) = (g+5p) 1/2+5p) = = (9+5P) 1000 e nopati pauguno dytkegia Ha
Bin (nopati pauguno

a) min/x149

81 nax 1x, 74

$$= (1 - 2p + p^{2})^{k} = (1 - 12p - p^{2})^{k} = mh/(x, y) n Ge/(2p - p^{2})$$

FXVAIN = IF (MAN) = X

$$=1-2(1-p)^{1c}+11-p)^{2k}=$$

$$= (1 - 11 - p)^{\kappa} + (1 - p)^{2\kappa}$$

$$= ((1-(1-p)^{K})^{2}$$

 $\forall n \in PO(\lambda n)$ $\forall n$

×1++2 ~ 6e ()1+12)

curp it out JPP +
nperep sa p(x, y)???







