Seminar5 - B4 Thursday, 19 March 2020 Il ghicine stribuirea 7 -> X[]= istrue (v[][], n, x[]) $\alpha = 0$; for (i=0; i<n; i++) for (i=0; icn; i++) for(j=0; j = 3; j++) if(abs(v[i][j]) > max) max = abs(v[i][j]);for(j=0; <3;j++)) if (v[i][j]=0) = >+ >[v[i][j]j for (i=0; i <= max; i++) else s=s+(1-x[alos(viIj])); choose se[i] in {0,13; zif(D==0) returne false; Il verific daca am ghicit correct if (isTrue (v, n, x)== true) print ("success"); 1/ DA
else print ("failure"); // Nu Strin return true; 4-3DNF (x, 1772,123)v(-, A.) input: vo [n][3] - 4 în 3DN 7, n-ra. de conjunction OUTPUT: DA -daca 4 este valida HU - altfel. Il ghicine atribuirea care face formula ---- // calcul mox. din v for (i=0; i<n; i++) choose &[i] in 70,13; if (15 True DNF(or, n, x) == false) print ("failure"); "// NU else print ("success") 5 /1 No Strin X: - alg. se opreste dupa i iteratii (timpul de execuție este i) $\mathcal{P}(x_1) = np \cdot (n-1)! \cdot \frac{1}{n!}$ $np = \left\lfloor \frac{n}{2} \right\rfloor (+1)$ $P(X_2) = ni \cdot np \cdot (n-2)! \cdot \frac{1}{n!}$ ni = n - np $P(X_3) = A_{ni}^2 \cdot np \cdot (n-3)! \cdot \frac{1}{n!}$ $iip = \frac{n-3}{p(x_k)} = A_{ni} \cdot np \cdot (n-k)! \cdot \frac{1}{n!}$ $\mathbb{E}(T(n)) = \frac{\sum_{k=1}^{ni+1} k \cdot P(x_k)}{k \cdot P(x_k)}$ $= \underbrace{\sum_{k=1}^{ni+1}}_{k} k \cdot A_{ni}^{k-1} \cdot np \cdot (n-k)! \cdot \frac{1}{n!}$ 2 3 1 4 5 1 × × V $X_{i} = \text{programl executo bucla interiorara}$ V[i] > maryla parul i " 0 / 1 V[i] > mary $P(X_i) = (n-2)! \cdot \frac{n(n-1)}{2} \cdot \frac{277}{2}$ $P(x_{i}) = \begin{cases} x_{i-1} & x_{i-1} \\ x_{i-1} & x$ $\mathbb{F}(T(n)) = 2 + \sum_{i=0}^{n-1} \mathbb{F}(x_i) \cdot (1+n)$ $=2+\sum_{i=0}^{n-1}\mathcal{P}(x_i)\cdot(n+n)$ $\mathbb{E}\left(T(n)\right) = \mathbb{E}\left(2 + \sum_{i=0}^{n-1} x_i \cdot (1+n)\right).$ $E(A \cdot B) = E(A) \cdot E(B)$ E(A+B) = E(A) + E(B)v[i]>v[j] -> buda int. $T(n) = 2 + \sum_{i=0}^{n-2} \frac{n-i}{2} X_{ij} n$ Xii = " v[i] > v[j]" $P(\chi_{ij}) = C_n \cdot (n-2)! \cdot \frac{1}{n!}$ $v(ij) \cdot \frac{1}{n!} \cdot \frac{1}{n!$

 $E(T(n)) = 2 + \sum_{i=i+1}^{n-2} \sum_{j=i+1}^{n-1} E(x_{ij}) \cdot n$

 $= 2 + \sum_{i=1}^{n-2} \sum_{j=i+1}^{n-1} P(x_{ij}) \cdot n$