Algorithm Connectness Proof. Pefinition elimination: removal of given dement. Theorem 1 hade army minaper va harainger of unique? · FOTW OT SEV MAGGET. form array perform to no on or server and airait um airan  $Q_i \supset Q_{i+1} = Q_i > Q_n$ Qn7a1 =) Qi7a1 Q17Q1-1 =) Q1 >Q1-1 Q10p0 Q1-1 < Q1 ... Leeman 1 EVAS NIVAUAS n OTOIXENU DA MATARTSEI HE O NÍ 1 OTOIXEIR HETA and we diminations av Sev MEPI Agri Bavei Sinxoruna · O TEHLOS NIVOLAS HIDOPEN VOL EXEN 1 clement av n70 O Clemeny av n=0 yla n=0 Privial ma n/o: CEOTU META ano u diminations Exoche Exhips BESTIOTS HEXTRODS my . Xiers Brais eniséau n=2. Apa Qua = Qz Átono O apxillós pivquas Sev Eixe Sinsátuna. LE JETU METO ATO U DIMMOTIONS ÉXOLIE EXULAN BESTIGN

MEXION N=0. ATOMO UDOUS ME U.1 eliminations évalue

Enism Béstictin disn. ME 1 otolistic Chions ya n=1 is xuei 1 ≤ i ≤ 1, uai

2) apa i+1 sev opiserai, onote olimmation ya

a: < ai+1 sev eiroi existo Theorem 2 W=n-1 Tra nivana MERE Dows n xupis Jinnarina. Ano Deuphra 1 15404 071 ] i E [1, n-1] S.t a: < a:+1 719 Udile state for npoblinatos And Leema 1 10xxxi oti pia n >0 to texiuó state da exei petitos 1 ( o Eivai trivial) Octours auxi Bus n-1 diminations pla va gradouple of Mirana Mexigons 1. jut pillous I. Theorem 3 U=n-1 Béstioto pla Nivaua færtidous n Xups Sinsonna. Proof Colu BEXTIOTES LUEU yla u>n-1 =) u=n Ectu Mera ano u dimmarons Example (Buran Bertian METHOUS N=0. ATOMO WADES HE U. 1 chiming tions from Enlan BEXIOTA Lion per 1 000 XCIO U < n-1. Xupis Blabn Enizern U=n-2 APA CETHOS PIVONAS HE N=2 FTOIXEIA · Eirai Siá! ATOPO UDBUS OPRIOS MINOMOS XUPIS · DEV Eivai ISia? : ATOMO, n won DEN EVEN EXWAN. Eurisia 1 To Denpapea 1 loxuel us gla a. 12ai >ai+1 usu a= an Anolfish trivial. Theorem 4 POPUN DOU EMPONTERS TO HONDS IN WAI & O OPROPOS TUN · Even Mirques HE O: = Deitj was Dep + Ora + p, q pe P79 Non P=ing=itj ni outismpoles. (1). Enfreged=2 Xupy Blabn Ins Straco Trites A = [ Q1 ... Q; ... Qirj ... Qn] · Ano owerera 1 tou deventions 1 hou Original 2 Actor per e= 1+j-1-(1+1)=x+j-1-x-1=j-2 eliminations pla va exorpe A'=[a1...ai, al, oritj .... an] me ai=aitj Soupoferius. (indexes (ival tos A WAS ON TOU A' BLUMMA). (2) Av a: < al enixe you per to al dia dimination Av ai 7 al rote al cai+1 non navorper to isis Av ai = al asmov ano (1) EE Mast MERITTHEN DE LOTE C= 171/ = i diminations pla va "Molinisouper" Ta Q; Q; +i. · H(103V Q1 ... Q1-1 15xUEI TO DEMPNHO 3 per e=i-1-1=i-2 yie ve Exappe ax ai aitis ... an] · HERBY Ritj ... an INXVEI to DEMPHER 3 HE C= (n-i-j+1)-1 · Wara Anjoyre ME C= j3-2 tj-2 + n-/3-541-1 = n-4  $\left[Q_{\times},Q_{i},Q_{i+j},Q_{j}\right]$ QV QX < Qi was diti < Oly Tote HE W=n-d Exopre DEFTION LUON QV Q x > Qi uau Qi+j < Qy To TE arpaipoper to Qy, Uoul Ua D-) Qi+j < Qx (qi=qi+j) Q paiponte to Qx Nappeorus He nos our Saroko, nata xx porte de n=n-d. (500 TOORO. DIDI d=1 DA SOLLUE AM DELPHAR 3. lle Theorem 5. POPUN NOU EMPONJEM TO VOLHER ME TIS REPPINOTEPES EHPON OF1). Form duax, d per d < dmax. GIVAI Trivial va Soyer Ori QV EPILSE 3044 V9 NOOSIA ZEVOQUE" SIDES TURE VOLLERS HE MOTERS AND TIS MAX CHEQUIONS, DA havoufer le= n-d diminations, EV- per max Exorper Umin: n-dmax U > Umin.