Algorithm Connectness Proof. Pefinition elimination: removed of given plement. Theorem 1 have army proper va harainger or unique? · Form or SEV Mnopel. forw array perform to to onors were and a rait was a < an Qi) Qi+1 =) Qi>On Qn 7a1 =) Qi > Q1 Q17Q1-1 =) Q1 >Q1-1 QTODO Q1-1 < Q1 Leeman 1 EVAS NIVAUAS N OTOIXEMV DA MATABAJEN ME O NÍ 1 OTOIXENA MERA and we diminations av SEV NEPILANTBavei Sinxóruna . O TEHLOS MINGUAS MINGOEN VOL EXEN 1 clement av n70 O Clemeny av n=0 Proot. yla n=0 Privial ma n/o: ( EUTW HETR' AND U DIMINATIONS EXOCHE EXHAPS BEXTISTS HEXTOOUS not Xies Brokn Envisor n=2 APA 02 = Qz ÁTORO O OBXILIÓS pivalas Sev Eixe SIRAGIONA. LE JETU META ANO U Plimmations Éxagle (suran Bestion)

LESTO MESTOS N=0. ATONO UADAS ME U.1 eliminations évalue

Enistre Béstictin disn. ME 1 otos x 10 ( Enions ya n=1 iskuei 1 = i = 1, uai
2) apa i+1 sev opiserai, onote dimination ya
a: < ai+1 sev evai existo Jueorem 2 W=n-1 Tra nivana MERE Dows n xupis Jinnárena. Ano Deuphya 1 154041 071 ] i E [1, n-1] S.t Q: < Q:+1 719 Udus Storte Por npoblinatos And Leema 1 15xxx ot 1 pla n >0 to textuó state da exer petitos 1 ( O Eivai trivial) Desoupre auxi Bus n-1 aliminations yia va grasoupre de Mirana Mexisons 1. Mt pilous 1. Theorem 3 U=n-1 Béstioto XIa Nivaua FAETTiDOY n Xupis Sinsónna. Proof Colu BEXTIOTES LUES yla u>n-1 =) u=n JECTU METO ANO U DIMMATIONS ÉXAGE EDULAN BESTION HEXTOOUS N=0. ATOTTO WOODS HE U.1 eliminations frage Argumen = SENIONS DIA n=1 15xUG1 1=1=1, uai apa i+1 Ser opiseral, onote dimmation you a; < ai+1 Sev Errai Exists 71a U<n-1. (Xupis Brobn Einstefn U=n-2 APA CETHOS PIVAMAS HE N=2 OTOIXEIA · Eirai Sia? Atopo ugous aparos nivoras Xupis · DEV Eivai isia? : Atoro, n won DEN Evar Equipm. Eurosia 1 To Denpopula 1 loxuel uai gla Q,-1>ai>ai+1 uai Q,= an Anolfish trivial. Theorem 4 L=n-d yia nivana prestoons in was & o opospos tur POPUN DOU EMPONJERON TO SINDOPUND NO KEPO KE TIS REPONDEREN EHPONOFY. · elements aprinou nivana a: a:...an · MEROOD BEXILOS PINOS Mas · Even Nivanos HE Or: = Dei+j was Dep + Ora + p. q pe P79 Non P=119=itj ni OUTINEOPER. (1). ENESESED=2 Xupis BloBr Ths DEVINO THE A = [ Q1 ... Q; ... Qirj ... Qn] · Ano owerera 1 tou ocupyates 1 hou Orupaper 2 Actor per e= 1+j-1-(i+1)=/+j-1-/-1=j-2 eliminations pla va exorpe  $A' = [\alpha_1 \cdots \alpha_i, \alpha_i, \alpha_i, \alpha_i]$   $\mu \in \alpha_i = \alpha_{itj}$ Soupo estino (indexes sivai tou A WALLOW TOU A' NIVAMA). (7) Av a: < al enixe you per to al yia dimination Av a, 7 al rote al < a, +1 non navorte to isio Av ai = al almov ano (1) , SE Mask MEDITION DE 204E e= x4j/1=j eliminations pla va "Mormisoupe" Ta a; aiti. · H(103V Q1 ... Q1-1 15xUEI TO DEMPHHO 3 pur e=i-1-1=i-2 The ve Exappe ax air airs, ... an] · HERZU Ritj ... an INXUEL TO DEMPHER 3 HE C= (n-i-j+1)-1 · Warra Anjoyre Mr e= j-2 + i-2 + n-/2/2/1/ = n-4 [ax ai aiti, ay] QV QX < Qi was ceitil Cly Tote HE W=n-d Exopre DEFTION LUON QV ax>ai uas ai+j < ay Tote agaipoper to ay uou Un On aiti < ax (qi=qi+j) apaifatte to ax Napperorus per los or our Sarko, la talai porte de le n-d. EVAI EUROLO VO SOUPE OTI PM d>2 DO SOLVEUE per TOU 1510 TPORO. DIOI d=1 DA SOLVEUE AM DEUPYMA 3.