Bagara Da ce govanne, re equivor $L = \{ \omega \in \{a,b,c3^* \mid \#_a(\omega) = \#_b(\omega) \}$ euce. Uzez 32 pennenul: 1x cocle « npourbonen Bp. C 5-565/SC = nonstanslave e g-ra 5-2051165acronnemence \$ 200 mas ua 21-19 be. & selevre & v. 5-35/2 norfoonsberre of nava un 10-70,70 og ce chaiset no appenfoonen vormen Heno. r=(35, c3, {a.b, c3, 5, 2c > cc/Es

5-3cs1sclasb165a1551E3)

Bagara L= funcer | weforb3x} euce. Peneme! 14 5 - a Sa 5->656 5->6 vena r= (353, fa.65, 5, 25-) asa| 656] e3) Bapus e. re L(r) = L Da ce novame, re L= 2 a b c n+4 | n. he/N/3 Bagara e uce. Perneme: 145-saSc 5-23 3->bFcle Hena r=(25,B3, ?a.b.c3,5,78=a5c|B3)

Pumping Lemma [Toppgenue] (Neura 30 novembre) THEN LEZI* e KCE. Torales In EN paula, re 426L, 12122,]2x,y,z,u,v EZ: シア= エイラッハ 2) 1 4 2 4 1 4 12 3) 1441>0 J(AKEIN)[x2,50,0 eF]

Donazbane re gagen egun HEE KCE Hera e gagen bejupaen ezun L hag Z. 1. Hera DEN e reponstoons. (ruchoso of PL) 2. 1125 pare gyna de Lola 12p. 3. Thobbepaleare, re za bour passubane ra d no. nes raisu 2,7,2,4, V & Zx randa, re 2=xyzuv > |yzu| <p n 1401 > 1 vomen ce narepur ielN sandare xy z 4 L.

Tonaloa Lue e KCE.

Avo de episaterno etensa 500 eposos e c govaretno ronana buoruna m ma aba equanbu nesepunnana b man-gentua nes os nopeno, go mosoga. Donamere, re L= 2arb, c4/KEIN3 ne e UCE nag Z=2a,b,c3. (Jagara) Pemenne: Dongmere Le UCE. Hera nell e roublaire 426Lold12no, Fx,y,z,u,ve?: シケーコルシャーク 2) 14521 Ev 3) 1441>05 3 (Ar EIN) 5 sh, ser]; Hera d= anbron sueges 121=32=22. Impai: yn=at, t>0. Toroba zai=0 muere, re zyizuiv=artbright Supornboperne c y

y=bt, 750. Toraba ga i=0 mnare, re xyizuiv=anbn-tonall >> nposuboperale c y Il angrain: yn=ct, 2>0.7000les go, iz0
uparce, ce xyizuiv=anpronted

posuboperene c y ग्रिक्षः yn=a^{t2}bt², d2, d2>0. Torolog 20 i=0 nueve, Te 24 i zuiv=a⁻²²b^{n-t2}cⁿ &L 24 pointsperme c D III any rain: Imyran: yn=biocia, i., i2 > 0. Torella 39 i= 0 mnare, re = or bn-is cn-i2 &l = yizuiv= or bn-is cn-i2 &l mporubopeure c 1

Bagarea |

Des ce gouanne ree L=2 bⁿ² | n6N3

ve e UCE. Le menul. Hera PEIN 2 ruenaro et PL. Tonalog veux d= jp2. Bapno e re del m 12/=p. Parsnemenne nourfoonno parsonbane no ner rassy z,y,z,y,v t ZJ* sandon re 7=225an7 123n1 = b y 12n1>0. Hena k= 17 n1 n ravelos yn=b", 15h=p. Totales $xy^2 z^{i} = x^2 - x + i = x^2 + (i-1)x$ $= x^2 - x + i = x^2 + (i-1)x$ Mena i= 2 sonalar ayizuiv=bak Tradba eg nouamen, re n2+k ne e voien ubargons. B mrs e re n² < n² + 1 = m² + 1 m) (n+1)2=n2+2n+1=n2+n+(n+1)= かっていていかりつがってい

Tous nongeneure, re n3 2024 (n+1) => n2+4 re e roseen ulargnar >> rposulcoperul Dine e UCE Bagarea Da ce navance re l= {ww/we;a,53*} e UCE. There pelle rumoso or PL. Penenne: Mzsupane gyna 2=appappe. Bonnae, re 121=4p=p. Porrangere ponferne persulave na 1 na nei 1000 7,4,7,4, v E 25 paulle re 1924/5P) 1yu1>0 m 2=7yzuv. I myran: xyzu=ak. Torolog v=abab. 30, 1:0, xyizuiv = a4-1791 Bapbel

II myrani: y=ax, u=bs. Toreloo ze i=2 aprin brisar br & L Mayrain: y=bx, y=as. vonela gri:2 apprix apris bp & L Dayran: yzuv=6k. Torelæ g i=0 appropherugi EL Janyon: 424 = p, x = p-x 2p

Je Say Say

Da ce gouanne, re L= 2 a b c nk | n, h & IN} ve e uce. Pemenue: Hera PEIN e renance PL. Uzbupare d=aPBCP2. B anna e, re del m 121 = 2p+p² ≥p. Pazrnemegure rparformo parfordance na ner racin menforma yondonasa parfordance na ner racin menforma x, y, z, u, v & Z1* , L=xyzuv, 1yzu1=p, 1yu1>0 9 = a Pb Cby I any cain: xyzu=a. Tonalor za i=0I any cain: $y=a^k$, $z=a^mb^t$, $u=b^s$. Toralor za i=2I any cain: $y=a^k$, $z=a^mb^t$, $u=b^s$. Toralor za i=2I any cain: $y=a^k$, $z=a^mb^t$, $u=b^s$. Toralor za i=2 $xy^2zy^2v=a^{p+k}b^{p+s}c^{p^2}$ &L, zayp=0(p+u)(p+s)=p2+(k+s)p+sh > p2

Mayour : y=bh, z=bhct m=cs. Ponda ze i=2 zyizuiv = aPB+4cp3+5. Mname, re P(P+K)= P2+ KP Auo k=0 200 OCSEP ~ p(p+k)=p2 <p2+5 Ano U>0,50 055 4p m P(b+n)= b2+p5 = b3+b > b2+2 -> 2424V #L. Wanytan: yn=bk. Venalon zon i=0 24240 = app-4cp2 4L I anjair! y zuv=ck. Toneben x=abcch-4 ~ 28 i=0 mare ~ 28 i=0 mare ~ 29 p p²-1941 4L