

oodaiaaiaadaoidia n iayaimtepniui doiodi auA-ionepo anodoidiaia neiodiiua aaeeadaee aieuroe iuuinoe - oodaiaaadaaee. idiaeeodfaiae aead- e oodaiaaiaadaoidia aaeiaea-oe idiaeaie yaeyao ny idiaeia eo toeaeeaeey. Iiaua-oeie aeie-ife iuuinoe oodaiaaiaadaoidiu iuuinoeup 800-1200 IAo, eiabA-uea idaeoe-ane oaeaa aaadaeoidua daciadu, eae oodaia-aaiaadaoidiu iuuinoe toeaeeA-aapuae ndaa eniteucopony acaoo. Aey iapoi aieuroe iuuinoe aicaoo caiayao ny aiaidiai n ecauoi-iui aaaA-eaieai a aieueeyoeiua iioade. A toeaeeapuae ndaa iuaaa idaoeioep iaaodoinou iaitie, iinea -aA-ai iaadaay ndaa eaa a toeaee aieaa 300 IAo caieioay nenaA-ia aieueeyoe n aiaidiai toeaeeaeiea teaauaaony iaA-ainoadi-ife. A yoi neo-aa idiaiybo 13). A ea-anoaa toeaeeapuae ndaa-au eniteucopony aacu (aicaoo, aiaidia) eee aeaeinoe (aiA-aa, odaionoiaaoidia iafer). Id oaeaa iaiindaanoaiaa toeaeeaeiea ndaa-iieia - n iuuuup odaie, caaaeiauo a yoi noaoida (den. 14). {mospagebreak title=N eiaa yaeeodfaiae idia aicaeeaeie. Enoi-ifeaie iinoiyiiai oiea aey iaiia-ote aicaeeaeie yaeybo ny niaoeaeiua nenaoidi daaidu iapoi; 2)A ainoadi-ifa aunodiaaenoaa, aey -aai idiaiyao ny oioedfaie aicaeeaeiey, o. a. aunodia oaeae-aeia iai idiaonaa eeeaeaaee eo iineaanoaae. Iioie-ifa idiaeeaeie aicaeeaeiey auadepo ia iaiaa 1,8-2 iieA-iaeuiai idiaeeaeiey aica 3)A A aunodia aaiaiea iaieoiiai iey, o. a. oiaiuoaiea oiea aicaeeaeiey iapoi ai ioey aac cia-eoaeuiiai iia-auaeiey idiaeeae iaA-neuei nenaoidi. Iidnoaee ec ieo yaeyao ny yaeeodfaia-oeia nenaia aicaeeaeiey n aicaeeoaeai iinoiyiiai oiea (den. iaA-cuaaaiue aicaeeoaeai; ii idiaeeony ai aduaiea io aaA-aa neiodiiiai aiaadaoidia, a aai iuuinoe iinoaaeyao 1- 3 % iuuinoe aai daaeedoa-po n iuuuup dainoadia, onoaiaaiauo a oie aicaeeaeiey aicaeeoaeiey. Aicaeeaeie aicaeeoaeiey iinouaeeey Iiaaicaeeoaeie daaiaad n iaiiaicaeeaeiea, e iioieoaeiea daceoida R2 ide daiaa aiaadaoidia ia eciayao ny. A Aey aa idiaieoA-ny a neaopuai idyaea. Ide aeep-aiii eioaeeoida E1 aeep-aaony eioaeeoid E2, caieapuee iaiide aicaeeA-aeiey i idieoiaae daciueaiea eioaeeoida E1 e oie a oie iaA-iiode aicaeeaeiey aiaadaoidia oiaiuoaaonyA (den. 17). Oie aicaeeaeie aicaeeaeiey a yoi neo-aa en-ac au idaeoe-ane iaiaaia. Ii iaiaaiue dactu oie aicaeeaeiey iaaiiooei, oae eae ec-qa aie La dia/dt, idaaauA-epuae a iaieuei dac iieiaeuia idiaeeaeiea, a daceuoda -aai aiciei a idiaie eciyoe yoi iaiidee. Eoi dactuoaiea eioaeeoida. A Oioedfaie aicaeeaeiey ide eniteuciaaiee noi ia den. 15 e 16 iinouaeeeyao ny oioedfaiea dace nenaoidi aicaA-aeeaeiey n aeiaie e oedenoiaie. Yoe nenaoidi aicaeeA-aeiey iiaoo audu iioiaia ia aieuea iuuinoe e yaeyA n iaiiaicaeeaeiea, ia caaeneioep neA-noaio aicaeeaeiey e aanaoi-lop nenaio aicaeeaeiey. A aieueeie nenaia n iaiiaic G, eioiaay caoi idiaadaoony noae-aneia idiaadaoiaaia IO a yiaaep iinoiyiiai oiea. Yoa yiaaey iinoiaa a iaiidee

A A aieueeiea ia caaeneiea nenaiaa aicaeeaeiey (den. 19) yiaaey aey aicaeeaeiey ieo-aaony io niaoeaeui ai aicaee iaiioea aicaeeaeiey. Daciieaiinoe aieueeie ia caaeneie nenaoidi aicaA-aeeaeiey yaeyao ny aanaoi-ia nenaia aicaeeae iaiioee n iia-iuuup aidiyeoaeuiiai iioa, caeataeiai ia aaeo iapoi, idiaadaoony a iinoiyiiai idiaeeaeie e iaia-ndaaanoaia eoi-ifea. {mospagebreak title=Iieiaeuia aaiua neiodiiuo iapoiA IIEIAEUUA AAIUA NEIODIIO IAPOI E -eneo iieia eioina iaA-oeiu, ioinyony: 1)A A A A Iieiaeuia iuuinoe (aey aiaadaoidia e iiaiaiaA-oia-iteia iuuinoe, eA A, aey aaeaa iaiioe; 4)A A A A eiaieia idiaeeaeiea, A; 5)A A A A -anoia aduaiey, ia/ie (aey aeodfaiaaoidia ocauuaony e oai iaiioe aicaeeaeiey. Ia oaeae-aa ocauuaony oaeaa caaa - ecaioaeeoaeu iapoi e aia auiioea.

{mospagebreak title=Oieinoe oia neiodiiuo aiaadaoidia} OIEINOIE OIA NEIODIIO AAIAAODIA Iia oieinoe oia aadimaa yiedy daciieioaa. A yoi neo-aa iaieoia iia iapoi nicaaA-ony oieuei oie aicaeeaeiey. Yoi iia iaei daceia-aeou ia aa n eiee eioiaiai noaieybo ny oieuei n iaiioeie aicaeeA-aeiey. Iaieoiue iioie iiaiaiai iey ide aduaiee iiepa-nia eiaoeedoo a i idaeaeaeaan e neioieaeuiie. Yoi odaiaiea iaoneiaai oai, -oi ide neioieaeuiuo YAN e idiaeeaeie oie a yieida ide eie iieiaeuA-iu, oae eae ioonodaoo aiaai-iua iioade io auneo adiiie-aneoo. Edeoaeei aey ioaiee eeate YAN neoaeo ey ec noiie eaaadaoia aieeoaiuo (eee aeenoaopueo) cia-aeie auneo adiiie-aneoo nia-noaaeybooe aaiie eeate e aieeoai adiiie-aneie iinoaaeypuae. Etyoeeoaei eneaeeiey eeate eiaeiuo YAN a oadao-daciuo aiaadaoidia idiaiaiai oiea 50 A eeate YAN, aeceie e neioieaa, idaeaa anaai iaiaiaei, -oia aduaiey iaieoiiai iey aicaeeaeiey iapoi aua ii aicieiinoe 20, a): iau-ii o eaaaa iiepa caid adoo a 1,5-2 dca aieua, -ai o naaaei. Daniaaaeiea iaieoiie eiaoeoe a caida ia nidaiaiey ieaiaa eeaaay iaieoiie eiaoeoe ide daaiaidii caida. A iayaimtepiie iapoi oeo-aa-ia oia iaiioeiai iey aica nicaapA-ueoA iaieoiop noiaa-aidiio a eeate IAN e iaieoiie eiaoeoe, iaei idiyoo, -oi IAN iaiioe aicaeeaeiey, a oaeae adiiie IAN e eiaoeA-oee iey iioadaoiaai daaiua A A (3) A aa Fa,max e B1,max - iaieiaeuia cia-aeiey iaiioe aicaeeaeiey ia iiepi e oie aicaeeaeiey; I± - aeia aoe, iioadaoiaaopuae iieiaia oie -anoe iiepiiai aeaeiey, ia eioie oeeaaauaaony iaiioea, auadepo daaie I, /3 (I±=I/3). A AA yoi neo-aaA aA eeate iaieoiie eiaoeoe aoo ioonodaiaa aey oeo-aeiey oiaid eeate eiaoeodfaia-aaie YAN idiaiybo daniadaaeia iaiioe yiedy ii iacai e oieia-aeia aa oaaa. A iuuio neiodiiie iapoi yaeyao ny oadaeoadeoee oieinoia oiaa. Iia idaaanoaeyao iatie caaeneiinoe YAN, eiaoeedoaie a iaiioea ioaieou ia nuuaiea iaieoA-ife oie iapoi e n aa iuuuup iiooieo aaeeoiaa aeaoiaa e adoea oadaeoadeoee iapoi. Ia aicaeeaeiey eciaybo io iaieiaeuia cia-aeiey ai ioey, caieuaay ide yoi ieaiaiey aiaadao e aieuiada. Iiuaay oadaeod Ide dan-adao iau-ii eniteucop oadaeoadeoee oieinoia oiaa, eioiioep ieo-apo, niauaay iuoioep oadaeoadeoee aidaa ia o onoaiaaai, -oi yoe oadaeoadeoee iaie ioA-ee-apony adoa io adaaa, anee iioiaiea eo idiecaiaeo a ioinaeuiuo aeiee aicaeeaeiey iaiayo eae ioiaiea oaeouaa cia-aeiey oie aicaeeaeiey a iaadao e oieo, idiyoo ca aaciaue, a aiaadao (la* = U1ii. Iia-ee-aiua oaeie idacii oadaeoadeoee iacuapony iiaieuiie oadaeoadeoee oieinoia oiaa. Yoe oadaeoadeoee

A 0,5 A 1 A A 1,5 A 2 A 2,5 A 3 A 3,5 A E*a,a A A A 0 A A 1 A 1,23 A 1,3 A - A - A - A E*o,a A A A 0 A 0,58 A 1 A 1,33 A 1,4 A 1,45 A 1,51 A

Ideia-aeia. E*a,a - YAN aeodfaiaaoidia; E*a,a - YAN oodaiaaiaadaoidia. A A A A A A A A A A A A A A A A A