

,±,ìfOf<[]fv,É,íA€-Ú,<sup>2</sup>,Æ,Éfwf<fv,<sup>a</sup>, ,è,Ü,·Bf\_fCfAf[]fO f{fbfNfX,ì%°E[]ã,ì ,đfNfŠfbfN,μA-  
Ú“l,ì€-Ú,đfNfŠfbfN,μ,Ä,,<sup>3</sup>/<sub>4</sub>,<sup>3</sup>,çB

f[]bfz[][fW,ì'—[]M[]æ,Æ,μ,ÄŽw'è,·,é-¼'O,Ü,½,ÍOf<[]fv-¼,đ"ü—Í,μ,Ü,·i-¼'O,Ü,½,ÍOf<[]fv-¼,đ"ü—Í,·,é,Æα,»,-¼'O,É^ê"Ô<ß,ç~A—[]æ,³fAfhfCEfX',ì^ê—,©,çŽ©"®"l,É'l'đ,³,ê,Ü,·B

fAfhfCEfX' ,É“o~^ ,<sup>3</sup>,ê,Ä,ç,é-<sup>1</sup>/<sub>4</sub>'O,<sup>a</sup>•\Ž|,<sup>3</sup>,ê,Ü,·□B[-<sup>1</sup>/<sub>4</sub>'O,ì“ü—í/'l'ð] f{fbfNfX,É•¶Žš—ñ,ð“ü—  
í,μ,<sup>1</sup>/<sub>2</sub>□ê□‡,í□A^ê'v,·,é-<sup>1</sup>/<sub>4</sub>'O,<sup>3</sup>/<sub>4</sub>,<sup>-</sup>,<sup>a</sup>•\Ž|,<sup>3</sup>,ê,Ü,·□B

V, μ, ç ~ A — æ, É Š Ö, ·, é î • ñ, ð f A f h f C E f X' , É " o ~ ^, ·, é, Æ, «, É f N f Š f b f N, μ, Ü, · B  
f A f h f C E f X' , É, í A ~ A — æ, ï Ž © ' î, Æ < î - ± æ, É, Â, ç, Ä A " d ~ b " Ö + A Z Š A " d Ž q f f f f <  
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□V,μ,ϕfOf<□[fv,đfAfhfCefX' ,É“o~^,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

'l'đ,μ,½~A—□□æ,lfvf□pfefB,đ•\Ž|,·,é,Æ,«,ÉfNfŠfbfN,μ,Ů,·□B

fAfhfÆfX' ,Ü,½,íffBfÆfNfgfŠ fT[]fxfX,Å-¼'O,ðÆY[]ö,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

^è—,Å'!δ,μ,½~A—æ,ì-¼'O,δì-+ìfZ[W,ì [æ] f{NfX,É'Ç  
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00-1't,lf0bfz0[fW,ì [CC] f{fbfNfX,É"ü-í,·,é~A-00æ,ì-¼'O,ª•\Žì,ª,è,Ü,·0B

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Ž, <sup>3</sup>, ê, Û, ·□B, ±, è, ç, î^ê—, ðŒÿ□ō, ·, é, É, Í□Af, fff€, ÆfCf“f^□[flfbfg fT□[frfX  
fvf□fofCf\_□A, Ü, ½, íf□□[ffj< fGfŠfA flfbfgf□□[fN, ðŽg, Á, Ā□AfCf“f^□[flfbfg, É□Ú’ ±, ·, é•K—  
v, <sup>a</sup>, , è, Û, ·□B

Œÿö, ·, é~A—æ, ì-¼'O, ð"ü—Í, μ, Ü, ·B, ±, ìf{fbfNfX, Å, íA-¼'O AfjfbfNfI[f€AŠé<Æ-  
¼A, Ü, ½, í'c'ì-¼, ðŒÿö, Å, «, Ü, ·B

ŒŸö,·,éŒÂl,ì©,Û,½,ÍOf<[fv-¼,ð"ü—Í,μ,Û,·B

Œÿö,·,é~A—æ,ì“dŽqf[f< fAfhfŒfX,ð“ü—í,μ,Ü,·B

Œÿö, ·, é~A—æ, ĩfAfhfŒfX, ð"ü—Í, μ, Ü, ·B, ±  
, ĩf{fbfNfX, Å, íA' "A" s"¹ • {Œ§AZs<æ' →°AŠ"Ô'nA—X•Ö"Ô†, È, ÇAZ©'í, Ü, ½, Íĭ-  
±æ, ĩfAfhfŒfX, ĩ, Ç, ĩ" •ª, ðŽg, Å, Ā, àŒÿö, Å, <, Ü, ·B



Œÿö,·,é~A—æ,ì“d~b”Ô†,ð“ü—í,µ,Û,·B,±,ìf{fbfNfX,Å,íA“d~bAftf@fbfNfXAf|fPfbfg  
fxf<AŒg‘Ñ“d~b,È,ÇA,Ç,ì“d~b”Ô†,ðŽg,Á,À,àŒÿö,Å,«,Û,·B

Œÿø,·,é~A—æ,ÉŠÜ,Ü,è,é,ù,©,ìî•ñ,ð“ü—í,μ,Û,·B

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[]æ,đĈÿ[]đ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·[]B

ŒŸö,đ|—<sup>1</sup>,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

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Ž,³,ê,Ü,·[]B

^è—,Å'ı'đ,μ,½~A—□□æ,đfAfhfĈfX' ,É'Ç%oÁ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B



^ê—,Å'ı'đ,μ,½~A—æ,đfAfhfĈfX' ,©,çíœ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

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,©,ç'ĭ,Ô,±,Æ,à,Å,«,Û,·□B  
,½,Æ,ĭ,î□APh.D.□AM.E.□AM.D. ,È,Ç,đ“ü—Í,μ,Û,·□B

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Ž©'Ń,İŽs<æ'¬'º-¼,đ"ü—Í,μ,Û,·□B

Ž©'î,"s"1•{CE§-¼,đ"ü—Í,μ,Ü,·□B



Ž©‘ì—x•Ö”Ô†,đ“ü—í,μ,Û,·B

Ž©'î,î' -¼,đ"ü—í,μ,Û,·B

í-±æ, ð-¼'O, ð"ü-í, μ, Ü, ·B

⟨î-±[æ, Å, ð]E, ð“ü—í, µ, Ü, ·[B

ŕ-±æ, Å, ðŠ'®•"ðð, ð"ü—í, µ, Û, ·B

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⟨í-±[æ,ì]Š"Ô'n,đ"ü—í,μ,Û,·[B

í±æ,žsæ'→<sup>o-1/4</sup>,đ"ü—í,μ,Ü,·B



⟨î-±□æ,î“s“¹•{CE§-¼,ð“ü—Í,μ,Ü,·□B

ŕ-±[æ, ð-X•Ö"Ô[†, ð"ü-Í, µ, Ü, ·[B

í-±æ, ð-¼, ð"ü-í, µ, Ü, ·B

“d~b”Ô†,đ“ü—í,μ,Û,·B,±,±,É,íA□‘Û’Ê~bE`Ž®,Å“ü—í,·,é,±,Æ,đ,“Š©,ß,μ,Û,· (—á: +81 3  
1234-5678)□B

[“d~b”Ô] f{fbfNfX,É•\Ž|,³,ê,Ä,ç,é“d~b”Ô]t.Éf\_fCf,,f<,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

ftf@fbfNfX"Ôt,đ"ü—í,μ,Û,·B,±,±,É,íA□'□Û'Ê~bCE`Ž®,Å"ü—í,·,é,±,Æ,đ,Š©,β,μ,Û,· (—á:  
+81 3 1234-5678)□B

[ftf@fbfNfX] f{fbfNfX,É•\Ži,³,ê,Ä,ç,é“d~b”Ô□†,Éf\_fCf,,f<,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

^Ú“®“d~b,ì”Ô±,đ“ü—í,μ,Û,·B,±,±,É,íA□‘□Û’É~bCE`Ž®,Å“ü—í,·,é,±,Æ,đ,“Š©,ß,μ,Û,· (—á:  
+81 030 123 4567)□B



[Œg'Ñ"d~b] f{fbfNfX,É•\Ž|,³,ê,Ä,ç,é"d~b"Ô□†,Éf\_fCf,,f<,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

fjXf^f€ f%xf<, ð, Æ, Ñf%xf<, ÉŠÖ~A•t, ¯, ç, ê, Ä, ç, éfGf“fgfŠ, ð“ü—í, µ, Ü, ·□Bf{fbfNfX, ì%°E, É, , é  
%°°Eü, «-î^ó, ðfNfŠfbfN, µ, Ä^ê—, ©, ç, l, Ö, ±, Æ, à, Å, «, Ü, ·□B

f|fPfbfg fxf<,ì"Ô+δ"ü—í,μ,Û,·B,±,±,É,íA[]'Û'É~bCE`Ž®,Å"ü—í,·,é,±,Æ,δ,Š©,ß,μ,Û,· (—á:  
+81 3 1234-5678)[]B

[f]Pfbfg fxf<] f{fbfNfX,É•\Ž|,³,ê,Ä,č,é“d~b”Ô□t,Éf\_fCf,,f<,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

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f,fff€,ìf\_fCf,,f<fAfbfv—p,ì“d~b”Ô□t,ìf{fbfNfX,É•\Ži,³,è,Ä,ç  
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~A—□□æ,ì^κ□ì (fjfbfNfi□[f€) ,ð“ü—í,μ,Û,·□B

$f \sim fhf^{-1} \text{ for } f \in \langle \delta^{-1} \mu, \dot{\mu}, \dot{B} \rangle$



f,.,É,Ç,ìî•ñ,ð“ü—Í,μ,Û,·B

, ±, ìf\_fCfA f fO f {fbfNfX, đŠ, ç, ½, Ü, Ü□A•ĩ□X“à—e, đ•Ů‘¶, μ, Ü, ·□B

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%oÁ,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

“dŽqf□□[f< fAfhfĈfX,î^ê—,ª•\Ž,³,ê,Û,·□B

'l'đ,μ,½“dŽaf□□[f< fAfhfCEfX,đ^ê—,©,ç□í□œ,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

'l'đ,μ,½“džqf□□[f< fAfhfĀfX,đ□Af□fbfZ□[fW,đ'—,é,Æ,«,ÉŽg,π•W□€,ì“džqf□□[f<  
fAfhfĀfX,É,μ,Û,·□B

fCf“f^[]fjfbfg fz[]f€ fy[]fW,ì URL (fAfhfCEfX) ,ð“ü—Í,μ,Ü,·□B

fCf“f^[]f]fbfg fz[]f€ fy[]fW,đfuf%ofEfU,ìfEfBf“fhfE,Ā•Ž!,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B



fOf<□[fv,ì□³Ž®-¼□ì,đ□É—ª,¹,,É“ü—Í,μ,Ü,·□B

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fOf<□[fv,É“o~^,³,ê,Ä,ç,é-¼'O,ì^ê—,ª•\Ž|,³,ê,Ü,·□B

[fOf<[fv,lf"fo[] f{fbfNfX,Å'1'δ,μ,½-¼'O,đfOf<[fv,©,çíœ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

“ü—í,μ,½•¶žš—ň,Æ^ê'v,·,é-¼'O,³fAfhfCfX' ,©,çCEŸ□ō,³,ê,Ä•\Ž|,³,ê,Ü,·□B^ê'v,·,é-¼'O,³CE©,Ä,©,ç,È,©,Á,½□ê□‡,Í□A"ê'v,·,é□€-Ú,È,μ" ,Æ•\Ž|,³,ê,Ü,·□B

fAfhfCEfX' ,<sup>a</sup>•\Ži,<sup>3</sup>,ê,Ü,·□BfAfhfCEfX' ,Å,Í□A□<sup>3</sup>,μ,ϕ-¼'O,đ'l'đ,·,é,±,Æ,<sup>a</sup>,Å,«,Ü,·□B

'l'đ,μ,½“dŽaf□□[f< fAfhfCEfX,ì□î•ň,đ•ĩ,ı,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B



^è—,Å'ı'đ,μ,½~A—□□æ,đ'—□M,·,é□fbfZ□[fW,ì [BCC] f{fbfNfX,É'Ç  
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f{fbfNfX,ÉŽw'è,μ,½'ŠŽè,ÆŽ©•ª,¾,¯,É,μ,©,í,©,è,Û,¹,ñ□B

'—□M,·,é□fbfZ□[fW,ì [BCC] f{fbfNfX,É“ü—í,·,é~A—□□æ,<sup>a</sup>•\Ž|,<sup>3</sup>,ê,Ü,·□B

^ê—,Å'ı'đ,μ,½-¼'O,đfAfhfÆfX' ,©,çíœ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

—~—p,Å,«,éfffBfCEfNfgfŠ fT□[frfX,ª•\Ž!,³,ê,Ü,□B

ffBfCEfNfgfŠ fT□[frfX,đ'Ç%Á,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

'l'đ,μ,½ffBfŒfNfgfŠ fT□[frfX,đ^è—,©,ç□í□œ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

'l'đ,μ,½ffBfCEfNfgfŠ fT□[frfX,lfvf□pfefB,đ•İ,ı,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

fffBfCEfNfgfŠ fT[]frfX,î^ê—,Å'!δ,μ,½fffBfCEfNfgfŠ fT[]frfX,δ□A-¼'O,δŠm" F,·,éfffBfCEfNfgfŠ  
fT[]frfX,î^ê—,É'Ç%Á,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B



-¼'O,đŠm" F,·,éfffBfCEfNfgfŠ fT[]frfX,î^ê—,Å'1'đ,μ,½fffBfCEfNfgfŠ  
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-¼'O,đŠm" F,·,éffBfĈEfNfgfŠ fT□[frfX,ì^è—,Å'I'đ,μ,½ffBfĈEfNfgfŠ fT□[frfX,đ^è—,ì 1  
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-¼'O,đŠm" F,·,éffBfCEfNfgfŠ fT□[frfX,ì^ê—,É'Ç%Á,Å,«,éffBfCEfNfgfŠ fT□[frfX,<sup>a</sup>•\Ž|,<sup>3</sup>,ê,Ü,·□B

'l'đ,Ā,«,é□,ª•\Ž|,³,ê,Û,·□B

'l'đ,Å,«,éfAfhfĀfX' ,ÆffBfĀfNfgfŠ fT□[frfX,ª•\Ž|,³,ê,Û,·□B

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fffBfCEfNfgfŠ fT□[frfX,Ö,ì□Ú'±,ªŠm—š,<sup>3</sup>,ê,é,Û,Å,É'Ò,ÂŽžŠÔ,đ'²□®,μ,Û,·□B

Œÿö,·,éŒÂ|,ì%º,ì-¼'O,Û,½,Í,»|æ“ª,ì 1 •ŒŽš,ð“ü—Í,µ,Û,·B,Ù,Æ,ñ,Ç,ìfT[fó[,Å,íA[-¼]  
f{fbfNfX,ì•ŒŽš—ñ,¾,¯,ÅŒÿö,·,é,±,Æ,í,Å,«,Û,¹,ñB

ŒŸö,·,éŒÂl,ì©,Û,½,í,»,ìæ“ª,ì 1 •Ÿš,ð“ü—í,µ,Û,·B

Œÿö,·,é~A—æ,ì“dŽqf[f< fAfhfŒfX,Ü,½,í,»,ìæ“<sup>a</sup>,ì 1 •ŒŽš,ð“ü—í,μ,Ü,·B

Œÿö, ·, é~A—æ, ì%ïžĐ-¼, Ü, ½, í, » , ìæ“ª, ì 1 • ¶žš, ð“ü—í, µ, Ü, ·BfT[fo[. É, æ, Á, Ä, íA, ±  
, ìî•ñ,ªžg, í, ê, È, ç, ±, Æ, à, , è, Ü, ·B

-¼'O,ðŒŸø,Å,«,é'îê—,ª•\Ž|,³,ê,Ü,·B^ê"x,ÉŒŸø,Å,«,é,ì 1 ,Â,ì',¾, -,Å,·B,Ü,½A^ê  
—,É•\Ž|,³,ê,Ä,ç,é',Å, ,Ä,À,àAfT[fö[,É,æ,Á,Ä,íî•ñ,ª"o~^,³,ê,Ä,ç,È,ç,±,Æ,ª, ,è,Ü,·B

fAfhfCEfX' ,É•Û'¶,³,ê,Ä,ç,éî•ñ,ì,κ,ζ□A'í'ð,μ,½~A—□□æ,ÉŠÖ,·,éî•ñ,ð,·,×,Ä^ó□ü,μ,Û,·□B

'l'đ,μ,½~A—æ,ÉŠÖ,·,éî•ñ,ì,κ,ζA%oižĐ-¼A“d~b”ÔtA“džqf[f< fAfhfĀfX,È,ÇA-  
¼Žh,É<LÚ,·,é,æ,κ,Èî•ñ,đ^óü,μ,Û,·B



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