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	2 BBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	3 CCCDFFKKAA CDDDDFKKAA LLCGJJJJHA 1L1GGGEEBBB	4 DDDDLCCCKK FDGLLLBCKK FGGLLLBCKK FGGLLLBCKK GGGLLLBCCKK GGGLLLBCCKK GGGLLLBCCKK FDGLLLA
5 EKKDDDDLAAA EKKIDILLHA EEGIIICLHHB FEGCCCHHBB FFGGG		7 CCCKKBBHIEI CCLAAAHHEE CLLEFADHHE CCLFFDDDDE	
9 1 1 C C C B B B A A 1 C C C C C K K 1 C C C C K K	10 CCCHHIELEC CAHEBKKLDC AABBKKDDDD	11 KKBBCAAAEEH LLLCCCDFF LLLCCCDFF	12 AAACCERET AHHDEEEEEET HHDDDDEECT HFCLDDDDEKK FFCCCCCCCKK
	14 CCCCDHHCCCC CDDDDHCCCC FLCCAIDECEE FFCCAIDECEE	15 DDDDAAALCCC 1D1HAFLLLCC 1D1HHFFLCCC CCCHHBBEKK CJJJJBBBEKK	16 DDDDAAABEE HHDKKGALEE HHDKKGLLEE IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
17 FFKK1LLLHE GFKK1LLLHE GGGEDDHAAE	18 CCCBBCLLLKK CCBBCLLLKK CCCEELLIBH CCEEDAAAHHF	19 HHAAAFEEII DHHCAFFLEEI DDHCBBLLLII DCCCBBCLLKK DJJJCCCCKK	20 1 1 1 B B K K C C C 1 E 1 H B B K K C C C E H H A A A L C C E H H O A F L L L C C E D D D F F L C C C
FFKKULLLH BC		HRAAAFEEEUU	
FFKKOLLUHB GFKKOLLUHB GGGEOHHAB ODDDOAAA 21 CGGEKKLBEC AAGEELLUHC AIGOELHHD	CCCDDDLLLKK CCCDDLLLKK CCCDDLLLKK CCCDDLLLKK CCCDDDAFF 22 XXCCFFHHAACC CLLFDBACC	HHAAAFFFU DHGAFFU DDHGBUUUKK DCCCCKK 23 23 AAAFFU UUFKDHHCC CFFDDDDHC	24

31 IFICCCHHBB FFADDDDLHFG KKACEDLLLFG KKAAEELGGG	32 100 FDDDDAA 100 FFDHHAC 180 FFDHHAC	33 KKDEAAAHDDC IIILLDHHPPBC IILLDDDDFCCC	34 ALEEHOEEGKK LLLHHBBDGII CLHFFDDDDI CCCF
35 BBLDDDDAAC KKFLEEHHGAC KKFEEIHIGC GGGGEIIIGEG	36 CLDDDDAHBBB LLLDTIHHBBC FLKKIHHBBC FFKKILECC	37 DDDDLIIAAKK DELLLIGAKK BEELIIGAHH BBECCECHFF	38 EKKHODDDBC EKKHHDDDDBC E AAHHLDBBC I E I AFLLLBBC I I I AFLLLBC
39 FFKKAAADDDD FFKKAEEEDCC OTLLEHCCCC OTLLEHBBCC	40 CCCKKFDDDDE CCCKKFDDHHE CACLEBBHHEE CALLLBBHIEI CALLLBBHIEI	41 HHEEDDDD11 HHAELDC01 GHABLLLC11 GAABBLFCKK GGGBFFCKK	42 111888LDDDD FHHAAGLEEC FHHAAGLEEC FHHAGECKKC AGGCKKC
43	44 KKFFAAHHDEE IIILFAHHBBEC IILLAHEBBEC IILLCAHEBBEC	45 ALEEKKHHIIC LLLBKKDHHIC FLBBDDDDIIC FFBBUUGGGG	46 BLLFFHCCCC KKALEFHHIC KKAAADEIIE DDDDCCC
47 CCCCCCCCCCCCCAA CFFCCCCHLLLA KKFC1LHHLBA KKDC1EEHHBB DDDD11EEBB	48 DDDD DBHCCCC DL BBBHHIIC CLLC EEHHIC FLKKAEEIIC FFKKAAAGGC	49 HDDDDLLBB HDFLLBBB CHHFFLCBBB 151ACCCCKK 111AAACCCKK	50 FFAAAIIDECC FAEIDDDDG GEELIIHKKG GBBLLLBHKKC GBBLHHCCCC
51 CCC11CCFAA DC1CCCFFAA DC11CCFFAA DC0C11CCFFAA DDBCCHFKK	52 HHBBBCCCLKK HHBBCCCLKK AHCCCCCC AACODODCCCC	53 1 1 1 D D D D C C C C 1 H 1 B B D L L L E C F H B B B A L E C C F F H A A A C E K K	54 KKFFETHCCC KKFLEEHCAC BELLDDDDAAC
55 KKCCAAAHHBB 111CAGHHLBB 1D1CCGHLLCF DDDDCCCCLFF	56 AAADDDDD ALBEDHGGGC LLLCEBHHUUGC FLKKHHEEUGC FFKKEEEUCC	57 BBCLDDDD111 BBLLLDHH1E1 KKFCGGGHEE KKFFGAAAHCE	58 CCCBBBDDDDG CLFFBBDDDDG LLLFCCBBBDDDDG LLLFCCBBBDDDDG LLLFCBBBDDDDG LLLFCBBBDDDDG LLLFCBBBDDDDG LLLFCBBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG LLFFBBDDDDG
59 DDDDACCCKK	60		



61		-		
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61 AAABLLLHEEI GCCBLCHHII KKCBBDCCCC	62 BBLLHHAAAG IIIEHAGGG IDIFFEECKK DDDFCCCKK	63 CALELLLHHF CADDDLHFFF CAADBEIHIKK CCCBBBIIIKK	64 DDDDEELDLHBB FFAAGLHHBB FKKAGHHIBI KKAGGGIII
65 EFFBBCHLAC IEIKKGHLLLC IIIKKGGLCC	66 FFCCCIIEE FBBBCIEEAA KKBBLIIHAG KKDLLLHHAG DDDDLHHGGG	67 CCCAAAHHEED CIULAALHHED CIBLULLHDD KKBBUCLEED KKBBUCCEED	68 FHADLLLIIC FFHAAALEEIC KKBBBEEEIIC KKBBBEEEIIC
69 IDIKKCLLCEG DDDDHCFLAEG BBHHCFFALE BBHHCFFALE		71 KKILEEDCGG KKIEEDDCA HHUILLDCA FHHBBLCDAA FFHBBBCCCC	72 A DEEDUUUBBB AAAEELHHBBD GKKFFLLLHHDD GKKFFLCIHID GGGCCCCIIID
73 BBHHIAICLEE CHHAAADLLE GEECDDDDLKK GGEECDDDLKK	74 CCCDAAACKK CHHDDBBACKK FFHDBBLECC IFIIDBLLLCC IIIICCCLCCC	75 DDDDFCCKK IDIFFCLHHKK IIIIBLLLHHG AAABBBLEEHG AJJJJEEEGGG	76 CHEFAALLCKK CHHFALLLCKK IEHADLCCB IEIDDDDCCBB IIIICCCCCB
	70	70	22
77 FFBBCCCCAAE FBBBKKKCAEE OIIIIHKKLAEC OIDIHHUUUEC DDDDHHUCCC	78 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	79 HHCCCCFFFKK AHDTTTLEFG ADDBELLEGG	80 1 D I H H B B L G G G D D D H H L L L A G K K F F E E E L C A G K K F E E C C A A
FFBBCCCCAAE	GGG BBBBBB AAG BBBBB AIGIKKHHLLL AIIIKKDHHLF		101HBBBCCCC DDDHHLLLAC KKFFEELCAC
81	B2 KKCCCCLHHAC KKCCCCLHAC FEBDLEAA	83 83 6 K K D D H L L L F 6 K K D H H L L F	84 84 BBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

91 1 1 8 8 0 0 0 0 AA 1 8 1 8 8 8 0 H H A C E F F G K K H L L L C E G G G G G G G G C C C	92 1 1 K K D L H H G 1 A I K K L L L H G CAAA P P L B H G CCC F E E G G G	93 KKFF KKFCCCHHBB IIIIAAACLHHG IDIEEALLLHG DDDDEEELGGG	94 AAAEEEDHHKK FFEEBBLLHG IFICBBLLLHG
95 BBHHIKKAAAC CHHILEELAC GHEFEEDLLC GGGFDDDDLC	96 CCCCHFFFFKK CCCCHFFFFKK CCCCHFFFFKK TTTAAAHLEEC TTTAAAHLEEC DDDDBBBLECC	97 DDDDDDDDDBBB IDICCCCHHBB IDICCCCHHBB KKABEPLLLHG KKAAAFFLGGG	98 EKKHDDDDLCC EKKHHDGLLLC EFFHHGBLAC IEIFEGGBBAC
99 FFDBBBCECCC FDBBBCEFC DDAALLEFC IDIACLEFK IIIIACCCCKK	100 CCCFFEEAAA DCIFIHELA DCIFIHELA DCIFIHELA DCIFIHELA DCIFIHELA DCIFIERAAA	101 DHFFALLLEG DDHTALLEG DKKILLEG DKKCCCEBBB	102 1 1 F F D D D D E E K K G C C C L L H K K G C C C L L H K K G C C C A A H H B B B
103 KKGFFLDHIEI KKGFLLLHHEE BBGGGLCAHHE BBCCCCAAAE	104 KKFCCCLECC IIICBLUCHAC IDICBLUCHAC DDDDBHHAAC		106 BBBEEDUUKK DDCAEEHHKK DDCAFLLHC IDCCFFLGGG
107	108		110
	DDDDCCCCBB 1D1ACLHHBBO 111ALLLHHGO KKFAALEBHGO KKFFEEGGGO		
CLBBBEEEGKK CLCBBHHDG11 ALFFHHDDDD1	101ACLHH BBO 111ALLLHHGO KKFAAL BE HGO	EKKPPDHHGCC EEBBBHHLGAC LEIBBHLLLAC	
111 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	112 HEELLLEBAA HEELLLEBAA HEELLLEBAA		114

121	122 BDDDDBBLCC BDDBBLLCC BDHHAAALGC KKFHHIAIGC KKFFHIIIGGG	123 CEEKKCHHIBI AFKKCLHHBB AFFDLLLHBB AADDDDL	124 DDDDLHHCCC AFFLIIHCCC AFFLIIHCCC AFKKIECGB AKKIECGB
125 FFDDDDLCC FBBDHLLLC IERBHHLGC IERKKAHHCC IIIKKAAACGG	126 FEBBLLLHID EEAACLHHDD EKKAGHOID EKKAGGG	127 CCCDDDDHIII CEBBAHHPLLU CEBBAHHPLLU ELAAAKKPPLC	128 FHDEECCCCCA FFDECCAAA FFDECCAAA FFDECCAAA FFDECCAAA FFDECCAAA FFDECCCCCCA FDDCCCCCCA FDDCCCCCCA FDDCCCCCCCCA FDDCCCCCCCA FDDCCCCCCCCA FDDCCCCCCCA FDDCCCCCCCA FDDCCCCCCCA FDDCCCCCCCA FDDCCCCCCCCA FDDCCCCCCCCA FDDCCCCCCCCCA FDDCCCCCCCCA FDDCCCCCCCCCA FDDCCCCCCCCCC
129 1 E E C C C A A 1 E D D D D L A G 1 H H D E L L A G K K F H E E L C G G K K F F H E E L C G G	130 10000000000000000000000000000000000	131 KKBBLLLACCC KKBBLLLACCC FFEELHACCC IFICEEHHDDC IIICCCHHDC	132 A D D D D D D D D D D D D D D D D D D D
133 AADDDDCCC BAADDHCCC BAADDHCCC KKFEELLCC	134 COFFEELLAA COFFEELLLAA COFFEECKKLHAA COFFEECKKDHHA EECCODDDHH	135 DIIBECCKKE DDIECHHKKE DIIBACLHHEE DFAAALLLHEC FFJJJJLCCCC	136 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
	138 CCCCFKKHAA	139 HHEEEBBEFFC DDHAAALOUFC DCCCCLLLUKK DCCCCLLLUKK	140 1 D D D D D D D D D D D D D D D D D D D
FFACCODCCC FLAAADDDDHG LLLEEEIIHG	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	HHEEEBBCCC DHALEBBFFC DDHAAALIIFC	
FFAAADDDDHG LLLEEIIHHG LLLEEIIHHG CCCKKIIBB 141	CCCCFKKLHHAA CCCFKKLHHAA 142	HHEEBBCCC DHAAALIIFC DDHAAALIIFC DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK DCCCLLLIKK	144

151	152	153	154
155	156	157	158
BBCUUUU LGGG BBCCCC LLLG G FHHAAALEEG FFDHHIAIEKK DDDDHIIIEKK			FILCCCBB FFICKKHHBB AEDDDDLLHG AAA
159	160	161	162
FFILLGCCKKE DFILLGHHKKE DDBJAGLHHEE DBBJALLLHEC DBBJALLCCCC	CCCCCDHFF CABBLCDHFF GABBLLLDDHH AABELLLDDHH AABEELIDIKK		I DODODCCCC I BEBALLLHEC I DEBACLHHEE FEDAACHHKKE FDDDDCCCKKE
163	164	165	166
			BEADDOHHECC BB AAHHL EC I FACHLLLC I FACKKLDEC I CCCKKDDD
167	168	169	170
	DBBFFUUUAC DBBFUHHAAAC DDBLLLHHCCC DEELCIHIKK EECCCCIIIKK	EEECOULDAAC KKEEHHLLLAC KKEEHHLCAC FFDEEHHLCAC FDDDD111CCC	
171	172	173	174
GKKAALEEEII GKKALLLHEEI GGGADLPHHII BBDDDDFFHHC BBBJJJCCCC		11000000000 10000HHEEC 11AAALHHGEE BBAFLLLHGKK BBEFFLGGGKK	
175	176	177	178
KKFFEELLCO KKFEEHLLLCO BBIUIHHLCCO BBIDIAHCCO BDDDDAAACCC			FFEEBECCC FEEDBBHHLC GKKUDBHHLLL GKKUDDHAILI GGG DAAAIII
179	180		



