

Part 3: New Algebraic Study of Magic Squares: Kanji Setsuda
Chapter 9: Fundamental Study of Composite Magic Squares:
Section 4: Two Types of 'Composite' Pan-magic Squares of Order 16:
 (1) 3-T Simultaneous Type and (2) Multiple 'C&C' PMS16

#0. Study about the Two Types of 'Composite' Pan-magic Squares of Order 16

Let's challenge to making the 'Composite' Pan-magic Squares of higher order 16.

It would be the biggest and hardest job, I know, but I want to make the two types of Composite PMS16 and study about the mutual correspondence between them.

#1. Make 3-T Simultaneous MS16: Composite, Self-complementary & Pandiagonal

1-1. Definitions: Basic Form & List of Basic Equations

**** For 'Composite & Pan-diagonal' Magic Squares of Order 16: ****

255	256	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	241	242
15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2
31	32	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	17	18
47	48	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	33	34
63	64	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	49	50
79	80	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	65	66
95	96	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	81	82
111	112	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	97	98
127	128	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	113	114
143	144	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	129	130
159	160	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	145	146
175	176	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	161	162
191	192	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	177	178
207	208	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	193	194
223	224	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	209	210
239	240	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	225	226
255	256	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	241	242
15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2

**** For Sums of Composite Combinations: CS=514 ****

$n1+n2+n17+n18=CS;$	$n2+n3+n18+n19=CS;$	$n3+n4+n19+n20=CS;$	$n4+n5+n20+n21=CS;$
$n5+n6+n21+n22=CS;$	$n6+n7+n22+n23=CS;$	$n7+n8+n23+n24=CS;$	$n8+n9+n24+n25=CS;$
$n9+n10+n25+n26=CS;$	$n10+n11+n26+n27=CS;$	$n11+n12+n27+n28=CS;$	$n12+n13+n28+n29=CS;$
$n13+n14+n29+n30=CS;$	$n14+n15+n30+n31=CS;$	$n15+n16+n31+n32=CS;$	$n16+n17+n32+n33=CS;$
$n17+n18+n33+n34=CS;$	$n18+n19+n34+n35=CS;$	$n19+n20+n35+n36=CS;$	$n20+n21+n36+n37=CS;$
$n21+n22+n37+n38=CS;$	$n22+n23+n38+n39=CS;$	$n23+n24+n39+n40=CS;$	$n24+n25+n40+n41=CS;$
$n25+n26+n41+n42=CS;$	$n26+n27+n42+n43=CS;$	$n27+n28+n43+n44=CS;$	$n28+n29+n44+n45=CS;$
$n29+n30+n45+n46=CS;$	$n30+n31+n46+n47=CS;$	$n31+n32+n47+n48=CS;$	$n32+n33+n48+n49=CS;$
$n33+n34+n49+n50=CS;$	$n34+n35+n50+n51=CS;$	$n35+n36+n51+n52=CS;$	$n36+n37+n52+n53=CS;$
$n37+n38+n53+n54=CS;$	$n38+n39+n54+n55=CS;$	$n39+n40+n55+n56=CS;$	$n40+n41+n56+n57=CS;$
$n41+n42+n57+n58=CS;$	$n42+n43+n58+n59=CS;$	$n43+n44+n59+n60=CS;$	$n44+n45+n60+n61=CS;$
$n45+n46+n61+n62=CS;$	$n46+n47+n62+n63=CS;$	$n47+n48+n63+n64=CS;$	$n48+n49+n64+n65=CS;$
$n49+n50+n65+n66=CS;$	$n50+n51+n66+n67=CS;$	$n51+n52+n67+n68=CS;$	$n52+n53+n68+n69=CS;$
$n53+n54+n69+n70=CS;$	$n54+n55+n70+n71=CS;$	$n55+n56+n71+n72=CS;$	$n56+n57+n72+n73=CS;$
$n57+n58+n73+n74=CS;$	$n58+n59+n74+n75=CS;$	$n59+n60+n75+n76=CS;$	$n60+n61+n76+n77=CS;$
$n61+n62+n77+n78=CS;$	$n62+n63+n78+n79=CS;$	$n63+n64+n79+n80=CS;$	$n64+n65+n80+n81=CS;$
$n65+n66+n81+n82=CS;$	$n66+n67+n82+n83=CS;$	$n67+n68+n83+n84=CS;$	$n68+n69+n84+n85=CS;$

n69+n70+n85+n86=CS;	n70+n71+n86+n87=CS;	n71+n72+n87+n88=CS;	n72+n73+n88+n89=CS;
n73+n74+n89+n90=CS;	n74+n75+n90+n91=CS;	n75+n76+n91+n92=CS;	n76+n77+n92+n93=CS;
n77+n78+n93+n94=CS;	n78+n79+n94+n95=CS;	n79+n80+n95+n96=CS;	n80+n65+n96+n81=CS;
n81+n82+n97+n98=CS;	n82+n83+n98+n99=CS;	n83+n84+n99+n100=CS;	n84+n85+n100+n101=CS;
n85+n86+n101+n102=CS;	n86+n87+n102+n103=CS;	n87+n88+n103+n104=CS;	n88+n89+n104+n105=CS;
n89+n90+n105+n106=CS;	n90+n91+n106+n107=CS;	n91+n92+n107+n108=CS;	n92+n93+n108+n109=CS;
n93+n94+n109+n110=CS;	n94+n95+n110+n111=CS;	n95+n96+n111+n112=CS;	n96+n81+n112+n97=CS;
n97+n98+n113+n114=CS;	n98+n99+n114+n115=CS;	n99+n100+n115+n116=CS;	n100+n101+n116+n117=CS;
n101+n102+n117+n118=CS;	n102+n103+n118+n119=CS;	n103+n104+n119+n120=CS;	n104+n105+n120+n121=CS;
n105+n106+n121+n122=CS;	n106+n107+n122+n123=CS;	n107+n108+n123+n124=CS;	n108+n109+n124+n125=CS;
n109+n110+n125+n126=CS;	n110+n111+n126+n127=CS;	n111+n112+n127+n128=CS;	n112+n97+n128+n113=CS;
n113+n114+n129+n130=CS;	n114+n115+n130+n131=CS;	n115+n116+n131+n132=CS;	n116+n117+n132+n133=CS;
n117+n118+n133+n134=CS;	n118+n119+n134+n135=CS;	n119+n120+n135+n136=CS;	n120+n121+n136+n137=CS;
n121+n122+n137+n138=CS;	n122+n123+n138+n139=CS;	n123+n124+n139+n140=CS;	n124+n125+n140+n141=CS;
n125+n126+n141+n142=CS;	n126+n127+n142+n143=CS;	n127+n128+n143+n144=CS;	n128+n113+n144+n129=CS;
n129+n130+n145+n146=CS;	n130+n131+n146+n147=CS;	n131+n132+n147+n148=CS;	n132+n133+n148+n149=CS;
n133+n134+n149+n150=CS;	n134+n135+n150+n151=CS;	n135+n136+n151+n152=CS;	n136+n137+n152+n153=CS;
n137+n138+n153+n154=CS;	n138+n139+n154+n155=CS;	n139+n140+n155+n156=CS;	n140+n141+n156+n157=CS;
n141+n142+n157+n158=CS;	n142+n143+n158+n159=CS;	n143+n144+n159+n160=CS;	n144+n129+n160+n145=CS;
n145+n146+n161+n162=CS;	n146+n147+n162+n163=CS;	n147+n148+n163+n164=CS;	n148+n149+n164+n165=CS;
n149+n150+n165+n166=CS;	n150+n151+n166+n167=CS;	n151+n152+n167+n168=CS;	n152+n153+n168+n169=CS;
n153+n154+n169+n170=CS;	n154+n155+n170+n171=CS;	n155+n156+n171+n172=CS;	n156+n157+n172+n173=CS;
n157+n158+n173+n174=CS;	n158+n159+n174+n175=CS;	n159+n160+n175+n176=CS;	n160+n145+n176+n161=CS;
n161+n162+n177+n178=CS;	n162+n163+n178+n179=CS;	n163+n164+n179+n180=CS;	n164+n165+n180+n181=CS;
n165+n166+n181+n182=CS;	n166+n167+n182+n183=CS;	n167+n168+n183+n184=CS;	n168+n169+n184+n185=CS;
n169+n170+n185+n186=CS;	n170+n171+n186+n187=CS;	n171+n172+n187+n188=CS;	n172+n173+n188+n189=CS;
n173+n174+n189+n190=CS;	n174+n175+n190+n191=CS;	n175+n176+n191+n192=CS;	n176+n153+n192+n177=CS;
n177+n178+n193+n194=CS;	n178+n179+n194+n195=CS;	n179+n180+n195+n196=CS;	n180+n181+n196+n197=CS;
n181+n182+n197+n198=CS;	n182+n183+n198+n199=CS;	n183+n184+n199+n200=CS;	n184+n185+n200+n201=CS;
n185+n186+n201+n202=CS;	n186+n187+n202+n203=CS;	n187+n188+n203+n204=CS;	n188+n189+n204+n205=CS;
n189+n190+n205+n206=CS;	n190+n191+n206+n207=CS;	n191+n192+n207+n208=CS;	n192+n177+n208+n193=CS;
n193+n194+n209+n210=CS;	n194+n195+n210+n211=CS;	n195+n196+n211+n212=CS;	n196+n197+n212+n213=CS;
n197+n198+n213+n214=CS;	n198+n199+n214+n215=CS;	n199+n200+n215+n216=CS;	n200+n201+n216+n217=CS;
n201+n202+n217+n218=CS;	n202+n203+n218+n219=CS;	n203+n204+n219+n220=CS;	n204+n205+n220+n221=CS;
n205+n206+n221+n222=CS;	n206+n207+n222+n223=CS;	n207+n208+n223+n224=CS;	n208+n193+n224+n209=CS;
n209+n210+n225+n226=CS;	n210+n211+n226+n227=CS;	n211+n212+n227+n228=CS;	n212+n213+n228+n229=CS;
n213+n214+n229+n230=CS;	n214+n215+n230+n231=CS;	n215+n216+n231+n232=CS;	n216+n217+n232+n233=CS;
n217+n218+n233+n234=CS;	n218+n219+n234+n235=CS;	n219+n220+n235+n236=CS;	n220+n221+n236+n237=CS;
n221+n222+n237+n238=CS;	n222+n223+n238+n239=CS;	n223+n224+n239+n240=CS;	n224+n209+n240+n225=CS;
n225+n226+n241+n242=CS;	n226+n227+n242+n243=CS;	n227+n228+n243+n244=CS;	n228+n229+n244+n245=CS;
n229+n230+n245+n246=CS;	n230+n231+n246+n247=CS;	n231+n232+n247+n248=CS;	n232+n233+n248+n249=CS;
n233+n234+n249+n250=CS;	n234+n235+n250+n251=CS;	n235+n236+n251+n252=CS;	n236+n237+n252+n253=CS;
n237+n238+n253+n254=CS;	n238+n239+n254+n255=CS;	n239+n240+n255+n256=CS;	n240+n225+n256+n241=CS;
n241+n242+n1+n2=CS;	n242+n243+n2+n3=CS;	n243+n244+n3+n4=CS;	n244+n245+n4+n5=CS;
n245+n246+n5+n6=CS;	n246+n247+n6+n7=CS;	n247+n248+n7+n8=CS;	n248+n249+n8+n9=CS;
n249+n250+n9+n10=CS;	n250+n251+n10+n11=CS;	n251+n252+n11+n12=CS;	n252+n253+n12+n13=CS;
n253+n254+n13+n14=CS;	n254+n255+n14+n15=CS;	n255+n256+n15+n16=CS;	n256+n241+n16+n1=CS;

**** Basic Conditions: HC=1028 ****

n1+n2+n3+n4+n5+n6+n7+n8=HC; n9+n10+n11+n12+n13+n14+n15+n16=HC; ... row1;
n1+n17+n33+n49+n65+n81+n97+n113=HC; n129+n145+n161+n177+n193+n209+n225+n241=HC; ... c1m1;

**** Conditions for Primary Diagonals: C=2056 ****

n1+n18+n35+n52+n69+n86+n103+n120+n137+n154+n171+n188+n205+n222+n239+n256=C ... pd1;
n16+n31+n46+n61+n76+n91+n106+n121+n136+n151+n166+n181+n196+n211+n226+n241=C ... pb16;

**** Self-complementary Conditions: CC=257 ****

n1+n256=n2+n255=n3+n254=n4+n253=n5+n252=n6+n251=n7+n250=n8+n249=
n9+n248=n10+n247=n11+n246=n12+n245=n13+n244=n14+n243=n15+n242=n16+n241=
n17+n240=n18+n239=n19+n238=n20+n237=n21+n236=n22+n235=n23+n234=n24+n233=
n25+n232=n26+n231=n27+n230=n28+n229=n29+n228=n30+n227=n31+n226=n32+n225=
n33+n224=n34+n223=n35+n222=n36+n221=n37+n220=n38+n219=n39+n218=n40+n217=
n41+n216=n42+n215=n43+n214=n44+n213=n45+n212=n46+n211=n47+n210=n48+n209=
n49+n208=n50+n207=n51+n206=n52+n205=n53+n204=n54+n203=n55+n202=n56+n201=
n57+n200=n58+n199=n59+n198=n60+n197=n61+n196=n62+n195=n63+n194=n64+n193=
n65+n192=n66+n191=n67+n190=n68+n189=n69+n188=n70+n187=n71+n186=n72+n185=
n73+n184=n74+n183=n75+n182=n76+n181=n77+n180=n78+n179=n79+n178=n80+n177=
n81+n176=n82+n175=n83+n174=n84+n173=n85+n172=n86+n171=n87+n170=n88+n169=
n89+n168=n90+n167=n91+n166=n92+n165=n93+n164=n94+n163=n95+n162=n96+n161=
n97+n160=n98+n159=n99+n158=n100+n157=n101+n156=n102+n155=n103+n154=n104+n153=
n105+n152=n106+n151=n107+n150=n108+n149=n109+n148=n110+n147=n111+n146=n112+n145=

n113+n144=n114+n143=n115+n142=n116+n141=n117+n140=n118+n139=n119+n138=n120+n137=
n121+n136=n122+n135=n123+n134=n124+n133=n125+n132=n126+n131=n127+n130=n128+n129=CC ... scc

I am afraid you may wonder why I did not define the basic definition about every row and column of our object like below.

```
** Basic Conditions: C=2056 **
n1+n2+n3+n4+n5+n6+n7+n8+n9+n10+n11+n12+n13+n14+n15+n16=C;           ... row1;
n1+n17+n33+n49+n65+n81+n97+n113+n129+n145+n161+n177+n193+n209+n225+n241=C; ... c1m1;
```

You are right, however, I am also right.

Even when you start with this style of definition, you could have every 8 numbers on half-lines always add up to the magic constant 1028. Our object is created as the multiple 8x8 type naturally. It is why I replace the first definition for that style like mine. It changes nothing about the result but improves its execution speed.

I like to skip explaining about that here. If you want to know the reason precisely, would you read my articles about Order 8 and 12? You can surely find the hints.

1-2. Important Part of my Program to make our Object

```
/* Level 0: */
/* Set N1 and n256=CSM-N1 & N1<n256 */
void stp01(){
  short a,b;
  for(a=1;a<129;a++){b=CSM-a;           //CSM=257; (a, b) is Complementary Pair of 257.
    if((uflg[a]==0)&&(uflg[b]==0)){      //Check if both values are un-used.
      nm[1]=a; nm[256]=b;              //Set N1 and n256 at the same time.
      uflg[a]=1; uflg[b]=1;           //Set the flags as 'Used'.
      stp02();                          //Call the next Procedure.
      uflg[b]=0; uflg[a]=0;           //Reset the flags as 'Un-used'
    }
  }
}
/* Set N16 and n241=CSM-N16 & N16>n241>N1 */
void stp02(){
  short a,b;
  for(a=256;a>128;a--){b=CSM-a;
    if((b>nm[1])&&(uflg[a]==0)&&(uflg[b]==0)){
      nm[16]=a; nm[241]=b;
      uflg[a]=1; uflg[b]=1;
      stp03();
      uflg[b]=0; uflg[a]=0;
    }
  }
}
/* Level 1: */
/* Set N2 and n255=CSM-N2; Add Limitations to the Value Range of critical variables */
void stp03(){
  short a,b;
  LV1=nm[1]+nm[241]-257;  if(LV1<0){LV1=0;}
  HV1=nm[1]+nm[241];      if(HV1>257){HV1=257;}
  LV2=nm[16]+nm[256]-257; if(LV2<0){LV2=0;}
  HV2=nm[16]+nm[256];     if(HV2>257){HV2=257;}
  LV3=nm[1]+nm[16]-257;  if(LV3<0){LV3=0;}
  HV3=nm[1]+nm[16];      if(HV3>257){HV3=257;}
  LV4=nm[241]+nm[256]-257; if(LV4<0){LV4=0;}
  HV4=nm[241]+nm[256];   if(HV4>257){HV4=257;}
  /**/
  for(a=HV2-1;a>LV2;a--){b=CSM-a;
    if((uflg[a]==0)&&(uflg[b]==0)){
      nm[2]=a; nm[255]=b;
      uflg[a]=1; uflg[b]=1;
      stp04();
      uflg[b]=0; uflg[a]=0;
    }
  }
}
```

```

/* Set n15=QSM-n255-n256-n16 and n242=CSM-n15 */
void stp04(){
short a,b;
a=QSM-nm[255]-nm[256]-nm[16]; //QSM=514; Constant Sum of Composite Combinations
b=QSM-nm[1]-nm[2]-nm[241];
if((LV1<a)&&(a<HV1)&&(a+b==CSM)){
if((uflg[a]==0)&&(uflg[b]==0)){
nm[15]=a; nm[242]=b;
uflg[a]=1; uflg[b]=1;
stp05();
uflg[b]=0; uflg[a]=0;}}
}
/* Set N3 and n254=CSM-N3 */
void stp05(){
short a,b;
for(a=LV1+1;a<HV1;a++){b=CSM-a;
if((uflg[a]==0)&&(uflg[b]==0)){
nm[3]=a; nm[254]=b;
uflg[a]=1; uflg[b]=1;
stp06();
uflg[b]=0; uflg[a]=0;}}
}
}
/* Set n14=QSM-n254-n255-n15 and n243=CSM-n14 */
void stp06(){
short a,b;
a=QSM-nm[254]-nm[255]-nm[15];
b=QSM-nm[2]-nm[3]-nm[242];
if((LV2<a)&&(a<HV2)&&(a+b==CSM)){
if((uflg[a]==0)&&(uflg[b]==0)){
nm[14]=a; nm[243]=b;
uflg[a]=1; uflg[b]=1;
stp07();
uflg[b]=0; uflg[a]=0;}}
}
}
/* Set N4 and n253=CSM-N4 */
void stp07(){
short a,b;
for(a=HV2-1;a>LV2;a--){b=CSM-a;
if((uflg[a]==0)&&(uflg[b]==0)){
nm[4]=a; nm[253]=b;
uflg[a]=1; uflg[b]=1;
stp08();
uflg[b]=0; uflg[a]=0;}}
}
}
/* Set n13=QSM-n253-n254-n14 and n244=CSM-n13 */
void stp08(){
short a,b;
a=QSM-nm[253]-nm[254]-nm[14];
b=QSM-nm[3]-nm[4]-nm[243];
if((LV1<a)&&(a<HV1)&&(a+b==CSM)){
if((uflg[a]==0)&&(uflg[b]==0)){
nm[13]=a; nm[244]=b;
uflg[a]=1; uflg[b]=1;
stp09();
uflg[b]=0; uflg[a]=0;}}
}
}
/* Set N5 and n252=CSM-N5 */
void stp09(){
short a,b;
for(a=LV1+1;a<HV1;a++){b=CSM-a;
if((uflg[a]==0)&&(uflg[b]==0)){
nm[5]=a; nm[252]=b;
uflg[a]=1; uflg[b]=1;
}
}
}

```

```

        stp10();
        uflg[b]=0; uflg[a]=0;}
    }
}
/* Set n12=QSM-n252-n253-n13 and n245=CSM-n12 */
void stp10(){
    short a,b;
    a=QSM-nm[252]-nm[253]-nm[13];
    b=QSM-nm[4]-nm[5]-nm[244];
    if((LV2<a)&&(a<HV2)&&(a+b==CSM)){
        if((uflg[a]==0)&&(uflg[b]==0)){
            nm[12]=a; nm[245]=b;
            uflg[a]=1; uflg[b]=1; cnt2=0;
            stp11();
            uflg[b]=0; uflg[a]=0;}}
}
/* Set N6 and n251=CSM-N6 */
void stp11(){
    short a,b;
    for(a=HV2-1;a>LV2;a--){b=CSM-a;
        if((uflg[a]==0)&&(uflg[b]==0)){
            nm[6]=a; nm[251]=b;
            uflg[a]=1; uflg[b]=1;
            stp12();
            uflg[b]=0; uflg[a]=0;}
    }
}
/* Set n11=QSM-n251-n252-n12 and n246=CSM-n11 */
void stp12(){
    short a,b;
    a=QSM-nm[251]-nm[252]-nm[12];
    b=QSM-nm[5]-nm[6]-nm[245];
    if((LV1<a)&&(a<HV1)&&(a+b==CSM)){
        if((uflg[a]==0)&&(uflg[b]==0)){
            nm[11]=a; nm[246]=b;
            uflg[a]=1; uflg[b]=1;
            stp13();
            uflg[b]=0; uflg[a]=0;}}
}
/* Set N7 and n250=CSM-N7 */
void stp13(){
    short a,b;
    for(a=LV1+1;a<HV1;a++){b=CSM-a;
        if((uflg[a]==0)&&(uflg[b]==0)){
            nm[7]=a; nm[250]=b;
            uflg[a]=1; uflg[b]=1;
            stp14();
            uflg[b]=0; uflg[a]=0;}
    }
}
/* Set n10=QSM-n250-n251-n11 and n247=CSM-n10 */
void stp14(){
    short a,b;
    a=QSM-nm[250]-nm[251]-nm[11];
    b=QSM-nm[6]-nm[7]-nm[246];
    if((LV2<a)&&(a<HV2)&&(a+b==CSM)){
        if((uflg[a]==0)&&(uflg[b]==0)){
            nm[10]=a; nm[247]=b;
            uflg[a]=1; uflg[b]=1;
            stp15();
            uflg[b]=0; uflg[a]=0;}}
}
/* Set n8=HSM-n1-n2-n3-n4-n5-n6-n7 and n249=CSM-n8 */
void stp15(){
    short a,b;

```

```

a=HSM-nm[1]-nm[2]-nm[3]-nm[4]-nm[5]-nm[6]-nm[7]; //HSM=1028; Constant Sum of Half-lines
b=HSM-nm[256]-nm[255]-nm[254]-nm[253]-nm[252]-nm[251]-nm[250];
if((LV2<a)&&(a<HV2)&&(a+b==CSM)){
    if((uflg[a]==0)&&(uflg[b]==0)){
        nm[8]=a; nm[249]=b;
        uflg[a]=1; uflg[b]=1;
        stp16C);
        uflg[b]=0; uflg[a]=0;}}
}
/* Set n9=QSM-n249-n250-n10 and n248=CSM-n9 */
void stp16C){
    short a,b;
    a=QSM-nm[249]-nm[250]-nm[10];
    b=QSM-nm[7]-nm[8]-nm[247];
    if((LV1<a)&&(a<HV1)&&(a+b==CSM)){
        if((uflg[a]==0)&&(uflg[b]==0)){
            nm[9]=a; nm[248]=b;
            uflg[a]=1; uflg[b]=1;
            if(nm[8]+nm[9]+nm[248]+nm[249]==QSM){stp17C);}
            uflg[b]=0; uflg[a]=0;}}
}
/* Level 2: */
/* Set N17 and n240=CSM-N17 */
void stp17C){
    short a,b;
    for(a=HV4-1;a>LV4;a--){b=CSM-a;
        if((uflg[a]==0)&&(uflg[b]==0)){
            nm[17]=a; nm[240]=b;
            uflg[a]=1; uflg[b]=1;
            stp18C);
            uflg[b]=0; uflg[a]=0;}}
}
}
/* Set n18=QSM-n1-n2-n17 and n239=CSM-n18 */
void stp18C){
    short a,b;
    a=QSM-nm[1]-nm[2]-nm[17];
    b=QSM-nm[256]-nm[255]-nm[240];
    if((0<a)&&(a<257)&&(a+b==CSM)){
        if((uflg[a]==0)&&(uflg[b]==0)){
            nm[18]=a; nm[239]=b;
            uflg[a]=1; uflg[b]=1;
            stp19C);
            uflg[b]=0; uflg[a]=0;}}
}
}
/* Set n19=QSM-n2-n3-n18 and n238=CSM-n19 */
void stp19C){
    short a,b;
    a=QSM-nm[2]-nm[3]-nm[18];
    b=QSM-nm[255]-nm[254]-nm[239];
    if((0<a)&&(a<257)&&(a+b==CSM)){
        if((uflg[a]==0)&&(uflg[b]==0)){
            nm[19]=a; nm[238]=b;
            uflg[a]=1; uflg[b]=1;
            stp20C);
            uflg[b]=0; uflg[a]=0;}}
}
}
/* ..(skip).. */
/* Set n32=QSM-n15-n16-n31 and n225=CSM-n32 */
void stp32C){
    short a,b,c,d;
    a=QSM-nm[15]-nm[16]-nm[31];
    b=QSM-nm[242]-nm[241]-nm[226];
    c=QSM-nm[16]-nm[1]-nm[17];
    d=QSM-nm[241]-nm[256]-nm[240];

```

```

if((LV4<a)&&(a<HV4)&&(a+b==CSM)){
  if((a==c)&&(b==d)&&(uflg[a]==0)&&(uflg[b]==0)){
    nm[32]=a; nm[225]=b;
    uflg[a]=1; uflg[b]=1;
    stp33();
    uflg[b]=0; uflg[a]=0;}}
}
/* Set N33 and n224=CSM-N33 */
void stp33(){
  short a,b;
  for(a=LV3+1;a<HV3;a++){b=CSM-a;
  if((uflg[a]==0)&&(uflg[b]==0)){
    nm[33]=a; nm[224]=b;
    uflg[a]=1; uflg[b]=1;
    stp34();
    uflg[b]=0; uflg[a]=0;}}
}
}
/* Set n34=QSM-n17-n18-n33 and n223=CSM-n34 */
void stp34(){
  short a,b;
  a=QSM-nm[17]-nm[18]-nm[33];
  b=QSM-nm[240]-nm[239]-nm[224];
  if((0<a)&&(a<257)&&(a+b==CSM)){
    if((uflg[a]==0)&&(uflg[b]==0)){
      nm[34]=a; nm[223]=b;
      uflg[a]=1; uflg[b]=1;
      stp35();
      uflg[b]=0; uflg[a]=0;}}
}
}
/* ..(skip).. */

```

It is terrible our program should have such the repetition of modules as above at least 128 times. I had to take and do that job, however hard it might look.

1-3. Result List of our first Challenge

** Three-Type Simultaneous Magic Squares of Order 16: **
 ** 'Composite', Self-complementary and Pan-diagonal **

```

1/ =RowS|C1mS\PD1S/PD2S
  1 255  3 253  6 252  8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
 33 223 35 221 38 220 40 218 42 216 44 214 45 211 47 209 =2056|2056\2056/2056
208 50 206 52 203 53 201 55 199 57 197 59 196 62 194 64 =2056|2056\2056/2056
 81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056
160 98 158 100 155 101 153 103 151 105 149 107 148 110 146 112 =2056|2056\2056/2056
145 111 147 109 150 108 152 106 154 104 156 102 157 99 159 97 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
 96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
193 63 195 61 198 60 200 58 202 56 204 54 205 51 207 49 =2056|2056\2056/2056
 48 210 46 212 43 213 41 215 39 217 37 219 36 222 34 224 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
 16 242 14 244 11 245  9 247  7 249  5 251  4 254  2 256 =2056|2056\2056/2056

25/ =RowS|C1mS\PD1S/PD2S
  1 255  3 253  6 252  8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
 33 223 35 221 38 220 40 218 42 216 44 214 45 211 47 209 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
 81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
208 50 206 52 203 53 201 55 199 57 197 59 196 62 194 64 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056

```


160 98 158 100 155 101 153 103 151 105 149 107 148 110 146 112 =2056|2056\2056/2056
145 111 147 109 150 108 152 106 154 104 156 102 157 99 159 97 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
193 63 195 61 198 60 200 58 202 56 204 54 205 51 207 49 =2056|2056\2056/2056
96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
48 210 46 212 43 213 41 215 39 217 37 219 36 222 34 224 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

49/ =RowS|C1mS\PD1S/PD2S

1 255 3 253 6 252 8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
33 223 35 221 38 220 40 218 42 216 44 214 45 211 47 209 =2056|2056\2056/2056
160 98 158 100 155 101 153 103 151 105 149 107 148 110 146 112 =2056|2056\2056/2056
81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
208 50 206 52 203 53 201 55 199 57 197 59 196 62 194 64 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
193 63 195 61 198 60 200 58 202 56 204 54 205 51 207 49 =2056|2056\2056/2056
96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
145 111 147 109 150 108 152 106 154 104 156 102 157 99 159 97 =2056|2056\2056/2056
48 210 46 212 43 213 41 215 39 217 37 219 36 222 34 224 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

73/ =RowS|C1mS\PD1S/PD2S

1 255 3 253 6 252 8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
33 223 35 221 38 220 40 218 42 216 44 214 45 211 47 209 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
208 50 206 52 203 53 201 55 199 57 197 59 196 62 194 64 =2056|2056\2056/2056
145 111 147 109 150 108 152 106 154 104 156 102 157 99 159 97 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
160 98 158 100 155 101 153 103 151 105 149 107 148 110 146 112 =2056|2056\2056/2056
193 63 195 61 198 60 200 58 202 56 204 54 205 51 207 49 =2056|2056\2056/2056
96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056
48 210 46 212 43 213 41 215 39 217 37 219 36 222 34 224 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

97/ =RowS|C1mS\PD1S/PD2S

1 255 3 253 6 252 8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
33 223 35 221 38 220 40 218 42 216 44 214 45 211 47 209 =2056|2056\2056/2056
96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056
208 50 206 52 203 53 201 55 199 57 197 59 196 62 194 64 =2056|2056\2056/2056
145 111 147 109 150 108 152 106 154 104 156 102 157 99 159 97 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
160 98 158 100 155 101 153 103 151 105 149 107 148 110 146 112 =2056|2056\2056/2056
193 63 195 61 198 60 200 58 202 56 204 54 205 51 207 49 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
48 210 46 212 43 213 41 215 39 217 37 219 36 222 34 224 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

121/ =RowS|C1mS\PD1S/PD2S

1 255 3 253 6 252 8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
49 207 51 205 54 204 56 202 58 200 60 198 61 195 63 193 =2056|2056\2056/2056

224 34 222 36 219 37 217 39 215 41 213 43 212 46 210 48 =2056|2056\2056/2056
65 191 67 189 70 188 72 186 74 184 76 182 77 179 79 177 =2056|2056\2056/2056
176 82 174 84 171 85 169 87 167 89 165 91 164 94 162 96 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056
160 98 158 100 155 101 153 103 151 105 149 107 148 110 146 112 =2056|2056\2056/2056
145 111 147 109 150 108 152 106 154 104 156 102 157 99 159 97 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
161 95 163 93 166 92 168 90 170 88 172 86 173 83 175 81 =2056|2056\2056/2056
80 178 78 180 75 181 73 183 71 185 69 187 68 190 66 192 =2056|2056\2056/2056
209 47 211 45 214 44 216 42 218 40 220 38 221 35 223 33 =2056|2056\2056/2056
64 194 62 196 59 197 57 199 55 201 53 203 52 206 50 208 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

361/ =RowS|C1mS\PD1S/PD2S

1 255 3 253 6 252 8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
65 191 67 189 70 188 72 186 74 184 76 182 77 179 79 177 =2056|2056\2056/2056
224 34 222 36 219 37 217 39 215 41 213 43 212 46 210 48 =2056|2056\2056/2056
49 207 51 205 54 204 56 202 58 200 60 198 61 195 63 193 =2056|2056\2056/2056
176 82 174 84 171 85 169 87 167 89 165 91 164 94 162 96 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056
160 98 158 100 155 101 153 103 151 105 149 107 148 110 146 112 =2056|2056\2056/2056
145 111 147 109 150 108 152 106 154 104 156 102 157 99 159 97 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
161 95 163 93 166 92 168 90 170 88 172 86 173 83 175 81 =2056|2056\2056/2056
64 194 62 196 59 197 57 199 55 201 53 203 52 206 50 208 =2056|2056\2056/2056
209 47 211 45 214 44 216 42 218 40 220 38 221 35 223 33 =2056|2056\2056/2056
80 178 78 180 75 181 73 183 71 185 69 187 68 190 66 192 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

481/ =RowS|C1mS\PD1S/PD2S

1 255 3 253 6 252 8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
224 34 222 36 219 37 217 39 215 41 213 43 212 46 210 48 =2056|2056\2056/2056
49 207 51 205 54 204 56 202 58 200 60 198 61 195 63 193 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
97 159 99 157 102 156 104 154 106 152 108 150 109 147 111 145 =2056|2056\2056/2056
144 114 142 116 139 117 137 119 135 121 133 123 132 126 130 128 =2056|2056\2056/2056
129 127 131 125 134 124 136 122 138 120 140 118 141 115 143 113 =2056|2056\2056/2056
112 146 110 148 107 149 105 151 103 153 101 155 100 158 98 160 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
64 194 62 196 59 197 57 199 55 201 53 203 52 206 50 208 =2056|2056\2056/2056
209 47 211 45 214 44 216 42 218 40 220 38 221 35 223 33 =2056|2056\2056/2056
96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

721/ =RowS|C1mS\PD1S/PD2S

1 255 3 253 6 252 8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
97 159 99 157 102 156 104 154 106 152 108 150 109 147 111 145 =2056|2056\2056/2056
224 34 222 36 219 37 217 39 215 41 213 43 212 46 210 48 =2056|2056\2056/2056
49 207 51 205 54 204 56 202 58 200 60 198 61 195 63 193 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
144 114 142 116 139 117 137 119 135 121 133 123 132 126 130 128 =2056|2056\2056/2056
129 127 131 125 134 124 136 122 138 120 140 118 141 115 143 113 =2056|2056\2056/2056
96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
64 194 62 196 59 197 57 199 55 201 53 203 52 206 50 208 =2056|2056\2056/2056
209 47 211 45 214 44 216 42 218 40 220 38 221 35 223 33 =2056|2056\2056/2056
112 146 110 148 107 149 105 151 103 153 101 155 100 158 98 160 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

841/ =RowS|C1mS\PD1S/PD2S

1	255	3	253	6	252	8	250	10	248	12	246	13	243	15	241	=2056 2056\2056/2056
240	18	238	20	235	21	233	23	231	25	229	27	228	30	226	32	=2056 2056\2056/2056
113	143	115	141	118	140	120	138	122	136	124	134	125	131	127	129	=2056 2056\2056/2056
224	34	222	36	219	37	217	39	215	41	213	43	212	46	210	48	=2056 2056\2056/2056
49	207	51	205	54	204	56	202	58	200	60	198	61	195	63	193	=2056 2056\2056/2056
176	82	174	84	171	85	169	87	167	89	165	91	164	94	162	96	=2056 2056\2056/2056
65	191	67	189	70	188	72	186	74	184	76	182	77	179	79	177	=2056 2056\2056/2056
160	98	158	100	155	101	153	103	151	105	149	107	148	110	146	112	=2056 2056\2056/2056
145	111	147	109	150	108	152	106	154	104	156	102	157	99	159	97	=2056 2056\2056/2056
80	178	78	180	75	181	73	183	71	185	69	187	68	190	66	192	=2056 2056\2056/2056
161	95	163	93	166	92	168	90	170	88	172	86	173	83	175	81	=2056 2056\2056/2056
64	194	62	196	59	197	57	199	55	201	53	203	52	206	50	208	=2056 2056\2056/2056
209	47	211	45	214	44	216	42	218	40	220	38	221	35	223	33	=2056 2056\2056/2056
128	130	126	132	123	133	121	135	119	137	117	139	116	142	114	144	=2056 2056\2056/2056
225	31	227	29	230	28	232	26	234	24	236	22	237	19	239	17	=2056 2056\2056/2056
16	242	14	244	11	245	9	247	7	249	5	251	4	254	2	256	=2056 2056\2056/2056

1081/ =RowS|C1mS\PD1S/PD2S

1	255	3	253	6	252	8	250	10	248	12	246	13	243	15	241	=2056 2056\2056/2056
240	18	238	20	235	21	233	23	231	25	229	27	228	30	226	32	=2056 2056\2056/2056
129	127	131	125	134	124	136	122	138	120	140	118	141	115	143	113	=2056 2056\2056/2056
224	34	222	36	219	37	217	39	215	41	213	43	212	46	210	48	=2056 2056\2056/2056
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192	66	190	68	187	69	185	71	183	73	181	75	180	78	178	80	=2056 2056\2056/2056
81	175	83	173	86	172	88	170	90	168	92	166	93	163	95	161	=2056 2056\2056/2056
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97	159	99	157	102	156	104	154	106	152	108	150	109	147	111	145	=2056 2056\2056/2056
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49	207	51	205	54	204	56	202	58	200	60	198	61	195	63	193	=2056 2056\2056/2056
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113	143	115	141	118	140	120	138	122	136	124	134	125	131	127	129	=2056 2056\2056/2056
80	178	78	180	75	181	73	183	71	185	69	187	68	190	66	192	=2056 2056\2056/2056
161	95	163	93	166	92	168	90	170	88	172	86	173	83	175	81	=2056 2056\2056/2056
64	194	62	196	59	197	57	199	55	201	53	203	52	206	50	208	=2056 2056\2056/2056
209	47	211	45	214	44	216	42	218	40	220	38	221	35	223	33	=2056 2056\2056/2056
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225	31	227	29	230	28	232	26	234	24	236	22	237	19	239	17	=2056 2056\2056/2056
16	242	14	244	11	245	9	247	7	249	5	251	4	254	2	256	=2056 2056\2056/2056

1441/ =RowS|C1mS\PD1S/PD2S

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161	95	163	93	166	92	168	90	170	88	172	86	173	83	175	81	=2056 2056\2056/2056
224	34	222	36	219	37	217	39	215	41	213	43	212	46	210	48	=2056 2056\2056/2056
49	207	51	205	54	204	56	202	58	200	60	198	61	195	63	193	=2056 2056\2056/2056
160	98	158	100	155	101	153	103	151	105	149	107	148	110	146	112	=2056 2056\2056/2056
65	191	67	189	70	188	72	186	74	184	76	182	77	179	79	177	=2056 2056\2056/2056
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113	143	115	141	118	140	120	138	122	136	124	134	125	131	127	129	=2056 2056\2056/2056
80	178	78	180	75	181	73	183	71	185	69	187	68	190	66	192	=2056 2056\2056/2056
145	111	147	109	150	108	152	106	154	104	156	102	157	99	159	97	=2056 2056\2056/2056
64	194	62	196	59	197	57	199	55	201	53	203	52	206	50	208	=2056 2056\2056/2056

209 47 211 45 214 44 216 42 218 40 220 38 221 35 223 33 =2056|2056\2056/2056
176 82 174 84 171 85 169 87 167 89 165 91 164 94 162 96 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

1561/ =RowS|C1mS\PD1S/PD2S

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177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
224 34 222 36 219 37 217 39 215 41 213 43 212 46 210 48 =2056|2056\2056/2056
49 207 51 205 54 204 56 202 58 200 60 198 61 195 63 193 =2056|2056\2056/2056
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81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
112 146 110 148 107 149 105 151 103 153 101 155 100 158 98 160 =2056|2056\2056/2056
97 159 99 157 102 156 104 154 106 152 108 150 109 147 111 145 =2056|2056\2056/2056
96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
129 127 131 125 134 124 136 122 138 120 140 118 141 115 143 113 =2056|2056\2056/2056
64 194 62 196 59 197 57 199 55 201 53 203 52 206 50 208 =2056|2056\2056/2056
209 47 211 45 214 44 216 42 218 40 220 38 221 35 223 33 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

1801/ =RowS|C1mS\PD1S/PD2S

1 255 3 253 6 252 8 250 10 248 12 246 13 243 15 241 =2056|2056\2056/2056
240 18 238 20 235 21 233 23 231 25 229 27 228 30 226 32 =2056|2056\2056/2056
193 63 195 61 198 60 200 58 202 56 204 54 205 51 207 49 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
33 223 35 221 38 220 40 218 42 216 44 214 45 211 47 209 =2056|2056\2056/2056
160 98 158 100 155 101 153 103 151 105 149 107 148 110 146 112 =2056|2056\2056/2056
81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056
96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
145 111 147 109 150 108 152 106 154 104 156 102 157 99 159 97 =2056|2056\2056/2056
48 210 46 212 43 213 41 215 39 217 37 219 36 222 34 224 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
208 50 206 52 203 53 201 55 199 57 197 59 196 62 194 64 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

1921/ =RowS|C1mS\PD1S/PD2S

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209 47 211 45 214 44 216 42 218 40 220 38 221 35 223 33 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
49 207 51 205 54 204 56 202 58 200 60 198 61 195 63 193 =2056|2056\2056/2056
144 114 142 116 139 117 137 119 135 121 133 123 132 126 130 128 =2056|2056\2056/2056
81 175 83 173 86 172 88 170 90 168 92 166 93 163 95 161 =2056|2056\2056/2056
112 146 110 148 107 149 105 151 103 153 101 155 100 158 98 160 =2056|2056\2056/2056
97 159 99 157 102 156 104 154 106 152 108 150 109 147 111 145 =2056|2056\2056/2056
96 162 94 164 91 165 89 167 87 169 85 171 84 174 82 176 =2056|2056\2056/2056
129 127 131 125 134 124 136 122 138 120 140 118 141 115 143 113 =2056|2056\2056/2056
64 194 62 196 59 197 57 199 55 201 53 203 52 206 50 208 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
224 34 222 36 219 37 217 39 215 41 213 43 212 46 210 48 =2056|2056\2056/2056
225 31 227 29 230 28 232 26 234 24 236 22 237 19 239 17 =2056|2056\2056/2056
16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056

2161/ =RowS|C1mS\PD1S/PD2S

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17 239 19 237 22 236 24 234 26 232 28 230 29 227 31 225 =2056|2056\2056/2056
208 50 206 52 203 53 201 55 199 57 197 59 196 62 194 64 =2056|2056\2056/2056
97 159 99 157 102 156 104 154 106 152 108 150 109 147 111 145 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056
176 82 174 84 171 85 169 87 167 89 165 91 164 94 162 96 =2056|2056\2056/2056

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161 95 163 93 166 92 168 90 170 88 172 86 173 83 175 81 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
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193 63 195 61 198 60 200 58 202 56 204 54 205 51 207 49 =2056|2056\2056/2056
 32 226 30 228 27 229 25 231 23 233 21 235 20 238 18 240 =2056|2056\2056/2056
209 47 211 45 214 44 216 42 218 40 220 38 221 35 223 33 =2056|2056\2056/2056
 16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056
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 17 239 19 237 22 236 24 234 26 232 28 230 29 227 31 225 =2056|2056\2056/2056
224 34 222 36 219 37 217 39 215 41 213 43 212 46 210 48 =2056|2056\2056/2056
 97 159 99 157 102 156 104 154 106 152 108 150 109 147 111 145 =2056|2056\2056/2056
192 66 190 68 187 69 185 71 183 73 181 75 180 78 178 80 =2056|2056\2056/2056
113 143 115 141 118 140 120 138 122 136 124 134 125 131 127 129 =2056|2056\2056/2056
176 82 174 84 171 85 169 87 167 89 165 91 164 94 162 96 =2056|2056\2056/2056
161 95 163 93 166 92 168 90 170 88 172 86 173 83 175 81 =2056|2056\2056/2056
128 130 126 132 123 133 121 135 119 137 117 139 116 142 114 144 =2056|2056\2056/2056
177 79 179 77 182 76 184 74 186 72 188 70 189 67 191 65 =2056|2056\2056/2056
112 146 110 148 107 149 105 151 103 153 101 155 100 158 98 160 =2056|2056\2056/2056
209 47 211 45 214 44 216 42 218 40 220 38 221 35 223 33 =2056|2056\2056/2056
 32 226 30 228 27 229 25 231 23 233 21 235 20 238 18 240 =2056|2056\2056/2056
193 63 195 61 198 60 200 58 202 56 204 54 205 51 207 49 =2056|2056\2056/2056
 16 242 14 244 11 245 9 247 7 249 5 251 4 254 2 256 =2056|2056\2056/2056
. . . . .

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**** Calculated and Listed by Kanji Setsuda on Feb.19, 2010 ****

It was so terrible for me to wait my computer calculate for a long time to print them out. At last I had to give up my challenge to count all the solutions even when $n1=1$. I have no idea about how many solutions there are in all for our object.

1-4. How about making the Multiple 4x4x16 type of 3-T Simultaneous PMS16?

Why don't we try to make a rarer, more precious type such as having many little squares 4x4 within? For instance, multiple 4x4x16 type of our object. Is it possible?

What do we have to change our definitions, then? We may well add such the simple conditions as below to the Basic Equations for rows and columns.

**** Basic Conditions: QC=514; HC=1028 ****

```

n1+n2+n3+n4=QC; n1+n17+n33+n49=QC; ... additional;
n1+n2+n3+n4+n5+n6+n7+n8=HC; n9+n10+n11+n12+n13+n14+n15+n16=HC; ... row1;
n1+n17+n33+n49+n65+n81+n97+n113=HC; n129+n145+n161+n177+n193+n209+n225+n241=HC; ... c1m1;

```

**** Multiple 4x4 Type of 3T Simultaneous Magic Squares of Order 16: ****

**** 'Composite', Self-complementary and Pan-diagonal ****

```

                                     1/ =RowS|C1mS\PD1S/PD2S
 1 255 4 254 5 251 8 250 10 248 11 245 14 244 15 241 =2056|2056\2056/2056
240 18 237 19 236 22 233 23 231 25 230 28 227 29 226 32 =2056|2056\2056/2056
 49 207 52 206 53 203 56 202 58 200 59 197 62 196 63 193 =2056|2056\2056/2056
224 34 221 35 220 38 217 39 215 41 214 44 211 45 210 48 =2056|2056\2056/2056
 65 191 68 190 69 187 72 186 74 184 75 181 78 180 79 177 =2056|2056\2056/2056
176 82 173 83 172 86 169 87 167 89 166 92 163 93 162 96 =2056|2056\2056/2056
113 143 116 142 117 139 120 138 122 136 123 133 126 132 127 129 =2056|2056\2056/2056
160 98 157 99 156 102 153 103 151 105 150 108 147 109 146 112 =2056|2056\2056/2056
145 111 148 110 149 107 152 106 154 104 155 101 158 100 159 97 =2056|2056\2056/2056
128 130 125 131 124 134 121 135 119 137 118 140 115 141 114 144 =2056|2056\2056/2056
161 95 164 94 165 91 168 90 170 88 171 85 174 84 175 81 =2056|2056\2056/2056
 80 178 77 179 76 182 73 183 71 185 70 188 67 189 66 192 =2056|2056\2056/2056
209 47 212 46 213 43 216 42 218 40 219 37 222 36 223 33 =2056|2056\2056/2056
 64 194 61 195 60 198 57 199 55 201 54 204 51 205 50 208 =2056|2056\2056/2056
225 31 228 30 229 27 232 26 234 24 235 21 238 20 239 17 =2056|2056\2056/2056
 16 242 13 243 12 246 9 247 7 249 6 252 3 253 2 256 =2056|2056\2056/2056

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289/ =RowS|C1mS\PD1S/PD2S

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240	18	237	19	236	22	233	23	231	25	230	28	227	29	226	32	=2056 2056\2056/2056
65	191	68	190	69	187	72	186	74	184	75	181	78	180	79	177	=2056 2056\2056/2056
176	82	173	83	172	86	169	87	167	89	166	92	163	93	162	96	=2056 2056\2056/2056
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161	95	164	94	165	91	168	90	170	88	171	85	174	84	175	81	=2056 2056\2056/2056
80	178	77	179	76	182	73	183	71	185	70	188	67	189	66	192	=2056 2056\2056/2056
225	31	228	30	229	27	232	26	234	24	235	21	238	20	239	17	=2056 2056\2056/2056
64	194	61	195	60	198	57	199	55	201	54	204	51	205	50	208	=2056 2056\2056/2056
209	47	212	46	213	43	216	42	218	40	219	37	222	36	223	33	=2056 2056\2056/2056
16	242	13	243	12	246	9	247	7	249	6	252	3	253	2	256	=2056 2056\2056/2056

577/ =RowS|C1mS\PD1S/PD2S

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17	239	20	238	21	235	24	234	26	232	27	229	30	228	31	225	=2056 2056\2056/2056
224	34	221	35	220	38	217	39	215	41	214	44	211	45	210	48	=2056 2056\2056/2056
97	159	100	158	101	155	104	154	106	152	107	149	110	148	111	145	=2056 2056\2056/2056
176	82	173	83	172	86	169	87	167	89	166	92	163	93	162	96	=2056 2056\2056/2056
161	95	164	94	165	91	168	90	170	88	171	85	174	84	175	81	=2056 2056\2056/2056
112	146	109	147	108	150	105	151	103	153	102	156	99	157	98	160	=2056 2056\2056/2056
209	47	212	46	213	43	216	42	218	40	219	37	222	36	223	33	=2056 2056\2056/2056
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177	79	180	78	181	75	184	74	186	72	187	69	190	68	191	65	=2056 2056\2056/2056
128	130	125	131	124	134	121	135	119	137	118	140	115	141	114	144	=2056 2056\2056/2056
193	63	196	62	197	59	200	58	202	56	203	53	206	52	207	49	=2056 2056\2056/2056
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673/ =RowS|C1mS\PD1S/PD2S

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240	18	237	19	236	22	233	23	231	25	230	28	227	29	226	32	=2056 2056\2056/2056
33	223	36	222	37	219	40	218	42	216	43	213	46	212	47	209	=2056 2056\2056/2056
208	50	205	51	204	54	201	55	199	57	198	60	195	61	194	64	=2056 2056\2056/2056
113	143	116	142	117	139	120	138	122	136	123	133	126	132	127	129	=2056 2056\2056/2056
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145	111	148	110	149	107	152	106	154	104	155	101	158	100	159	97	=2056 2056\2056/2056
128	130	125	131	124	134	121	135	119	137	118	140	115	141	114	144	=2056 2056\2056/2056
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48	210	45	211	44	214	41	215	39	217	38	220	35	221	34	224	=2056 2056\2056/2056
225	31	228	30	229	27	232	26	234	24	235	21	238	20	239	17	=2056 2056\2056/2056
96	162	93	163	92	166	89	167	87	169	86	172	83	173	82	176	=2056 2056\2056/2056
177	79	180	78	181	75	184	74	186	72	187	69	190	68	191	65	=2056 2056\2056/2056
16	242	13	243	12	246	9	247	7	249	6	252	3	253	2	256	=2056 2056\2056/2056

961/ =RowS|C1mS\PD1S/PD2S

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17	239	20	238	21	235	24	234	26	232	27	229	30	228	31	225	=2056 2056\2056/2056
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97	159	100	158	101	155	104	154	106	152	107	149	110	148	111	145	=2056 2056\2056/2056
192	66	189	67	188	70	185	71	183	73	182	76	179	77	178	80	=2056 2056\2056/2056
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49	207	52	206	60	201	54	199	55	198	57	204	62	196	63	193	=2056 2056\2056/2056
224	34	221	35	213	40	219	42	218	43	216	37	211	45	210	48	=2056 2056\2056/2056
65	191	68	190	76	185	70	183	71	182	73	188	78	180	79	177	=2056 2056\2056/2056
176	82	173	83	165	88	171	90	170	91	168	85	163	93	162	96	=2056 2056\2056/2056
113	143	116	142	124	137	118	135	119	134	121	140	126	132	127	129	=2056 2056\2056/2056
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64 194 61 195 53 200 59 202 58 203 56 197 51 205 50 208 =2056|2056\2056/2056
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225 31 232 26 227 29 230 28 236 22 237 19 234 24 239 17 =2056|2056\2056/2056
16 242 9 247 14 244 11 245 5 251 4 254 7 249 2 256 =2056|2056\2056/2056

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** Calculated and Listed by Kanji Setsuda on Feb.19, 2010 **

I was much surprised I could find such a lot of solutions as above. It was because there are nothing rarer and more precious than this type I could imagine.

I really felt printing was smooth, but it would never come to an end very soon.

I waited and waited for a long time. But I had to give up my counting through of all the solutions even when n1=1 at last.

It is indeed terrible to make of such a higher order as 16.

#2. Make Multiple 4x4 'Composite & Complete' Pan-magic Squares of Order 16

Let's make another type of 'Composite & Complete' PMS16, especially one of the rarest and the most precious type: Multiple 4x4x16 one. Is it also possible?

2-1. How to change the definitions to make that?

We have to replace the Self-complementary Conditions for the 'Complete' ones as listed below.

** Complete Conditions: CC=257 **

$$n1+n137=n2+n138=n3+n139=n4+n140=n5+n141=n6+n142=n7+n143=n8+n144=$$

n9+n129=n10+n130=n11+n131=n12+n132=n13+n133=n14+n134=n15+n135=n16+n136=
n17+n153=n18+n154=n19+n155=n20+n156=n21+n157=n22+n158=n23+n159=n24+n160=
n25+n145=n26+n146=n27+n147=n28+n148=n29+n149=n30+n150=n31+n151=n32+n152=
n33+n169=n34+n170=n35+n171=n36+n172=n37+n173=n38+n174=n39+n175=n40+n176=
n41+n161=n42+n162=n43+n163=n44+n164=n45+n165=n46+n166=n47+n167=n48+n168=
n49+n185=n50+n186=n51+n187=n52+n188=n53+n189=n54+n190=n55+n191=n56+n192=
n57+n177=n58+n178=n59+n179=n60+n180=n61+n181=n62+n182=n63+n183=n64+n184=
n65+n201=n66+n202=n67+n203=n68+n204=n69+n205=n70+n206=n71+n207=n72+n208=
n73+n193=n74+n194=n75+n195=n76+n196=n77+n197=n78+n198=n79+n199=n80+n200=
n81+n217=n82+n218=n83+n219=n84+n220=n85+n221=n86+n222=n87+n223=n88+n224=
n89+n209=n90+n210=n91+n211=n92+n212=n93+n213=n94+n214=n95+n215=n96+n216=
n97+n233=n98+n234=n99+n235=n100+n236=n101+n237=n102+n238=n103+n239=n104+n240=
n105+n225=n106+n226=n107+n227=n108+n228=n109+n229=n110+n230=n111+n231=n112+n232=
n113+n249=n114+n250=n115+n251=n116+n252=n117+n253=n118+n254=n119+n255=n120+n256=
n121+n241=n122+n242=n123+n243=n124+n244=n125+n245=n126+n246=n127+n247=n128+n248=CC ...ccd

We have to keep all the rest unchanged and have the same content for our new definitions: 256 'Composite Conditions' and Basic Conditions for rows and column:

```
** Basic Conditions: QC=514; HC=1028 **
n1+n2+n3+n4=QC; n1+n17+n33+n49=QC; ... additional;
n1+n2+n3+n4+n5+n6+n7+n8=HC; n9+n10+n11+n12+n13+n14+n15+n16=HC; ... row1;
n1+n17+n33+n49+n65+n81+n97+n113=HC; n129+n145+n161+n177+n193+n209+n225+n241=HC; ... c1m1;
```

2-2. Result List of My Recent Calculations

```
** Multiple 4x4x16 'Composite & Complete' Pan-magic Squares 16x16: **
** Sample List of Standard Solutions with Check-sums **
** Calculated and Listed by Kanji Setsuda on March 1, 2010 **
```

```
O/(n1,n16,n241,n256)=(1,255, 4,254); O/(n1,n16,n241,n256)=(1,255, 5,253);
O/(n1,n16,n241,n256)=(1,255, 6,252); O/(n1,n16,n241,n256)=(1,255, 7,251);
O/(n1,n16,n241,n256)=(1,255, 8,250); O/(n1,n16,n241,n256)=(1,255, 9,249);
O/(n1,n16,n241,n256)=(1,255, 10,248); O/(n1,n16,n241,n256)=(1,255, 11,247);
O/(n1,n16,n241,n256)=(1,255, 12,246); O/(n1,n16,n241,n256)=(1,255, 13,245);
O/(n1,n16,n241,n256)=(1,255, 14,244); O/(n1,n16,n241,n256)=(1,255, 15,243);
O/(n1,n16,n241,n256)=(1,255, 16,242); O/(n1,n16,n241,n256)=(1,255, 17,241);
O/(n1,n16,n241,n256)=(1,255, 18,240); O/(n1,n16,n241,n256)=(1,255, 19,239);
O/(n1,n16,n241,n256)=(1,255, 20,238); O/(n1,n16,n241,n256)=(1,255, 21,237);
O/(n1,n16,n241,n256)=(1,255, 22,236); O/(n1,n16,n241,n256)=(1,255, 23,235);
O/(n1,n16,n241,n256)=(1,255, 24,234); O/(n1,n16,n241,n256)=(1,255, 25,233);
O/(n1,n16,n241,n256)=(1,255, 26,232); O/(n1,n16,n241,n256)=(1,255, 27,231);
O/(n1,n16,n241,n256)=(1,255, 28,230); O/(n1,n16,n241,n256)=(1,255, 29,229);
O/(n1,n16,n241,n256)=(1,255, 30,228); O/(n1,n16,n241,n256)=(1,255, 31,227);
O/(n1,n16,n241,n256)=(1,255, 32,226);
```

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97 158 103 156 104 157 107 146 112 147 106 149 105 148 102 159 =2056|2056\2056/2056
192 67 186 69 185 68 182 79 177 78 183 76 184 77 187 66 =2056|2056\2056/2056
49 206 55 204 56 205 59 194 64 195 58 197 57 196 54 207 =2056|2056\2056/2056
144 115 138 117 137 116 134 127 129 126 135 124 136 125 139 114 =2056|2056\2056/2056
81 174 87 172 88 173 91 162 96 163 90 165 89 164 86 175 =2056|2056\2056/2056
240 19 234 21 233 20 230 31 225 30 231 28 232 29 235 18 =2056|2056\2056/2056
241 14 247 12 248 13 251 2 256 3 250 5 249 4 246 15 =2056|2056\2056/2056
48 211 42 213 41 212 38 223 33 222 39 220 40 221 43 210 =2056|2056\2056/2056
145 110 151 108 152 109 155 98 160 99 154 101 153 100 150 111 =2056|2056\2056/2056
80 179 74 181 73 180 70 191 65 190 71 188 72 189 75 178 =2056|2056\2056/2056
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81 174 88 171 87 173 92 162 96 163 89 166 90 164 85 175 =2056|2056\2056/2056
240 19 233 22 234 20 229 31 225 30 232 27 231 29 236 18 =2056|2056\2056/2056
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48 211 41 214 42 212 37 223 33 222 40 219 39 221 44 210 =2056|2056\2056/2056
145 110 152 107 151 109 156 98 160 99 153 102 154 100 149 111 =2056|2056\2056/2056
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193 62 200 59 199 61 204 50 208 51 201 54 202 52 197 63 =2056|2056\2056/2056
128 131 121 134 122 132 117 143 113 142 120 139 119 141 124 130 =2056|2056\2056/2056
161 94 168 91 167 93 172 82 176 83 169 86 170 84 165 95 =2056|2056\2056/2056
32 227 25 230 26 228 21 239 17 238 24 235 23 237 28 226 =2056|2056\2056/2056

2593/ =RowS|CTmS\PD1S/PD2S

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97 158 107 152 103 157 108 146 112 147 102 153 106 148 101 159 =2056|2056\2056/2056
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240 22 233 19 234 20 229 31 225 27 232 30 231 29 236 18 =2056|2056\2056/2056

241 11 248 14 247 13 252 2 256 6 249 3 250 4 245 15 =2056|2056\2056/2056
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128 134 121 131 122 132 117 143 113 139 120 142 119 141 124 130 =2056|2056\2056/2056
161 91 168 94 167 93 172 82 176 86 169 83 170 84 165 95 =2056|2056\2056/2056
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(English Version written on March 13, 2010 by Kanji Setsuda with MacOSX & Xcode3.1.2)
 E-Mail Address: jag12001@nifty.com