

29/10/76

Dear Prof. Radhu Rao,

The following is the detail of the actual computation

The Machine used was I.B.M. System 360/44
operating on programming system.

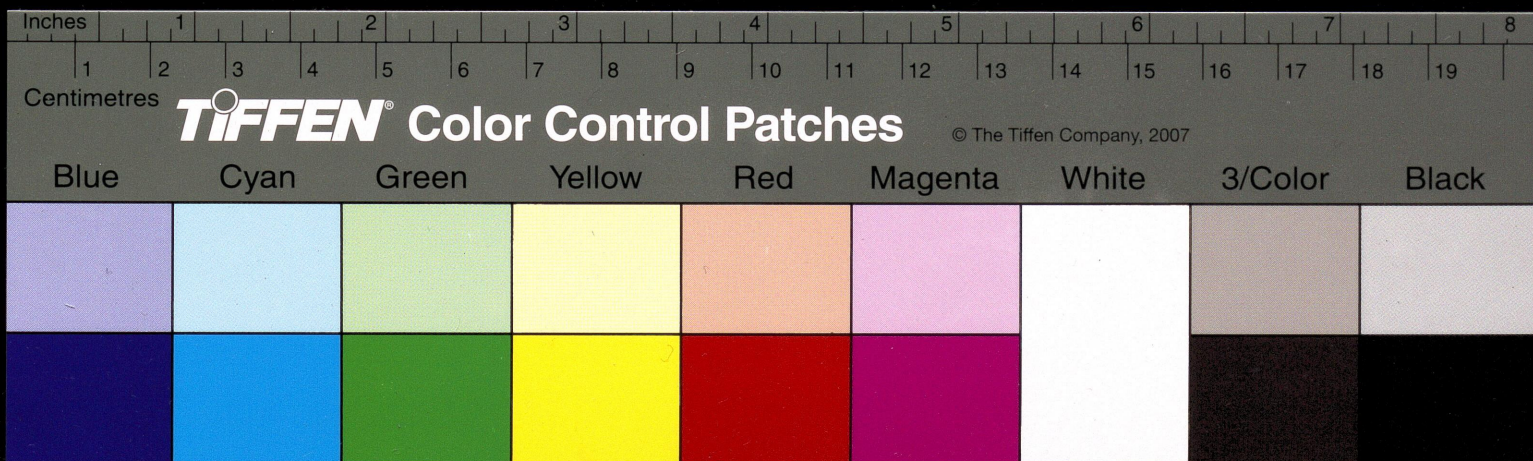
The technique used:

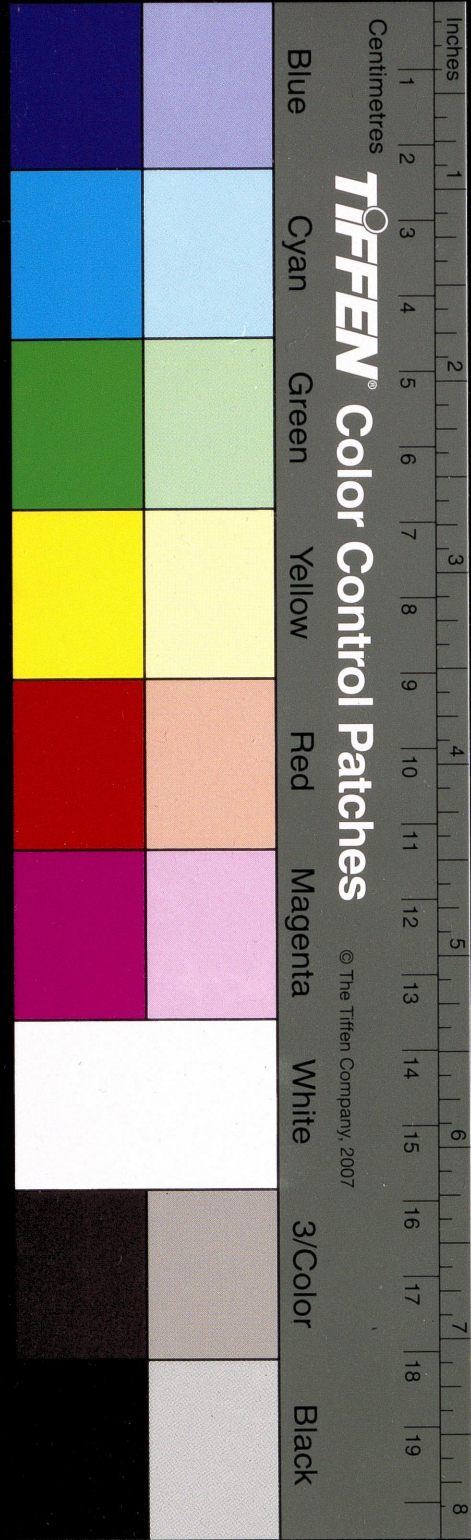
The actual component digits were generated using standard set of digits (0-9), with two imposed condition that no two digits are identical. The reverse number was simultaneously generated and the subtraction was carried out the answer was checked with original digits.

Other Information:

The program was written in Fortran IV and took about 35 mts for 9 digits numbers. The time taken for other numbers was far less than this.

I hope that this amount of information is sufficient if any more is required you may call on me that if you
with regards
K. Guler





Centimetres
 TFFEN Color Control Patches
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2,000,000,00

177,147

200,000,000
 177,147
 199,822,853

700,000,000 20,000,000
 823,543

700,000,000
 282,475,249
 417,524,751

7,000,000,000
 282,475,249
 6,717,524,751

700,000,000
 282,475,249
 417,524,751

$$10^9 a_1 + \dots + a_{10}$$

$$a_1 + a_2 + \dots + a_{90} = a_1 a_2 - a_{10}$$

$$(a_1 - 10^9 a_1) + (a_2 - 10^8 a_2) + (a_3 - 10^7 a_3)$$

$$10 - 7 \cdot 10^8$$

$$4,679,307,774$$

$$-3,998,951,424$$

(1)	(2)	(3)	(4)	(5)
1,000,000,000	100,000,000	10,000,000	1,000,000	100,000
-999,999,999	-99,999,999	-9,999,999	-999,999	-99,999
2,000,000,000	200,000,000	20,000,000	2,000,000	200,000
1,024	1,024	1,024	1,024	1,024
-1,999,998,976	-199,998,976	-19,998,976	-1,998,976	-198,976
3,000,000,000	300,000,000	30,000,000	3,000,000	300,000
59,049	59,049	59,049	59,049	59,049
-2,999,940,951	-299,940,951	-29,940,951	-2,940,951	-294,951
4,000,000,000	400,000,000	40,000,000	4,000,000	400,000
1,048,576	1,048,576	1,048,576	1,048,576	1,048,576
-3,998,951,424	-398,951,424	-39,895,1424	-3,951,424	-395,1424
5,000,000,000	500,000,000	50,000,000	5,000,000	500,000
9,765,625	9,765,625	9,765,625	9,765,625	9,765,625
-4,990,234,375	-490,234,375	-49,023,4375	-4,966,176	-496,6176
6,000,000,000	600,000,000	60,000,000	6,000,000	600,000
60,466,176	60,466,176	60,466,176	60,466,176	60,466,176
-5,939,533,824	-539,533,824	-53,953,3824	-5,966,176	-596,6176
7,000,000,000	700,000,000	70,000,000	7,000,000	700,000
282,475,249	282,475,249	282,475,249	282,475,249	282,475,249
-6,717,524,751	-671,752,4751	-67,175,24751	-6,766,176	-676,6176
8,000,000,000	800,000,000	80,000,000	8,000,000	800,000
1,073,741,824	1,073,741,824	1,073,741,824	1,073,741,824	1,073,741,824
-6,926,258,176	-692,625,8176	-69,262,58176	-6,966,176	-696,6176
9,000,000,000	900,000,000	90,000,000	9,000,000	900,000
3,486,784,401	3,486,784,401	3,486,784,401	3,486,784,401	3,486,784,401
-5,513,215,599	-551,321,5599	-55,132,15599	-5,566,176	-556,6176

Sumner's letter on numbers