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1      /*
      File:      kor_tr.c

      Задача.   корова + трава + доярка = молоко.

      Решение.  Антон Романов,
                9 "6", школа 3,
                04-18.05.08

      Public.   http://www.Best-Listing.ru
      */

9      # include <stdio.h>
10     # include <conio.h>

11     int main ()
12     {
13         long kor; // корова

14         char
15             k, ts5_kor, r, o, v, a, // korova
16             t, // trava
17             d, y, // doyrka
18             na_um, // то, что на ум пошло
19             ts1, ts2, ts3, l, ts5, m; // moloko

20         clrscr ();

21         // 1. korova
22         for (kor = 100000; kor <= 999999; kor ++)
23         {
24             a = kor % 10;
25             v = (kor / 10) % 10;

26             if (a == v)
27                 continue;

28             o = (kor / 100) % 10;

29             if (
30                 o == a
31                 ||
32                 o == v
33             )
34                 continue;

35             r = (kor / 1000) % 10;

36             if (
37                 r == a

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38         ||
39         r == v
40         ||
41         r == o
42     )
43     continue;

44     ts5_kor = (kor / 10000) % 10;

45     if (ts5_kor != o)
46         continue;

47     k = (kor / 100000) % 10;

48     if (
49         k == a
50         ||
51         k == v
52         ||
53         k == o
54         ||
55         k == r
56     )
57         continue;

58     // 2. trava
59     for (t = 1; t <= 9; t ++) // E1
60     {
61         if (
62             t == a
63             ||
64             t == v
65             ||
66             t == r
67             ||
68             t == k
69             ||
70             t == o // E3
71         )
72             continue;

73     // 3. doyrka
74     for (y = 0; y <= 9; y ++) // E2
75     {
76         if (
77             y == a
78             ||
79             y == v
80             ||
81             y == o
82             ||

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83         y == r
84         ||
85         y == k
86         ||
87         y == t
88     )
89     continue;

90     for (d = 1; d <= 9; d ++) // E4
91     {
92         if (
93             d == a
94             ||
95             d == v
96             ||
97             d == o
98             ||
99             d == r
100            ||
101            d == k
102            ||
103            d == t
104            ||
105            d == y
106        )
107        continue;

108        ts1 = (3 * a) % 10;

109        if (ts1 != o)
110            continue;

111        na_um = (3 * a) / 10;

112        ts2 = (na_um + v + v + k) % 10;

113        if (ts2 != k)
114            continue;

115        na_um = (na_um + v + v + k) / 10;

116        ts3 = (na_um + o + a + r) % 10;

117        if (ts3 != o)
118            continue;

119        na_um = (na_um + o + a + r) / 10;

120        l = (na_um + r + r + y) % 10;
121        na_um = (na_um + r + r + y) / 10;

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122         if (
123             l == a
124             ||
125             l == v
126             ||
127             l == o
128             ||
129             l == r
130             ||
131             l == k
132             ||
133             l == t
134             ||
135             l == y
136             ||
137             l == d
138         )
139             continue;

140         ts5 = (na_um + o + t + o) % 10;

141         if (ts5 != o)
142             continue;

143         na_um = (na_um + o + t + o) / 10;

144         m = (na_um + k + d) % 10;

145         if (
146             m == a
147             ||
148             m == v
149             ||
150             m == o
151             ||
152             m == r
153             ||
154             m == k
155             ||
156             m == t
157             ||
158             m == y
159             ||
160             m == d
161             ||
162             m == l
163         )
164             continue;

165         na_um = (na_um + k + d) / 10;

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166         if (na_um != 0)
167             continue;

168         printf ("%i%i%i%i%i%i + %i%i%i%i%i + %i%i%i%i%i%i = "
169                 "%i%i%i%i%i%i\n",
170                 k, o, r, o, v, a,
171                 t, r, a, v, a,
172                 d, o, y, r, k, a,
173                 m, o, l, o, k, o);
174     } // end for (d)
175 } // end for (y) doyarka
176 } // end for (t = 1; t <= 9; t ++)
177 } //end for (kor = 100000; kor < 999999; kor ++)

178     getch ();

179     return 0;
180 }

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