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1  Program mn_slon;
2  {
    Задача.      muha
                +
                muha
                ----
                slon

                Решить ребус с помощью множеств.

                Решение. Сергей Игнатов,
                2 курс, СПК 56,
                04.12.08, 18:12
    }

13  Uses Crt;

14  Var
15      D
16      : set of 0..9;

17      m, { m }
18      u, { u }
19      h, { h }
20      a, { a }
21      s, { s }
22      l, { l }
23      o, { o }
24      n { n }
25      : 0..9;

26      muha, { muha }
27      slon, { slon }
28      ost1, ost2, ost3, ost4,
29      i,
30      K
31      : integer;

32  Begin
33      ClrScr;

34      { первый столбик }
35      K := 0;
36      D := [];
37      for a := 1 to 9 do
38          begin
39              D := D + [a];
40              n := (a + a) mod 10;

41              if n in D

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42         then
43             begin
44                 D := D - [a];

45                 Continue;
46             end
47         else
48             D := D + [n];

49     ost1 := (a + a) div 10;

50     { второй столбик }
51     for h := 0 to 9 do
52         begin
53             if h in D
54                 then
55                     Continue
56                 else
57                     D := D + [h];

58             o := (ost1 + h + h) mod 10;
59             ost2 := (ost1 + h + h) div 10;

60             if o in D
61                 then
62                     begin
63                         D := D - [h];
64                         Continue;
65                     end
66                 else
67                     D := D + [o];

68             { третий столбик }
69             for u := 0 to 9 do
70                 begin
71                     if u in D
72                         then
73                             Continue
74                         else
75                             D := D + [u];

76                     l := (ost2 + u + u) mod 10;
77                     ost3 := (ost2 + u + u) div 10;

78                     if l in D
79                         then
80                             begin
81                                 D := D - [u];
82                                 Continue;
83                             end
84                     else

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85         D := D + [1];

86         { четвертый столбик }
87         for m := 1 to 4 do
88             begin
89                 if m in D
90                     then
91                         Continue
92                     else
93                         D := D + [m];

94                 s := (ost3 + m + m) mod 10;
95                 ost4 := (ost3 + m + m) div 10;

96                 if s in D
97                     then
98                         begin
99                             D := D - [m];

100                             Continue;
101                         end
102                     else
103                         D := D + [s];

104                 Inc (K);
105                 WriteLn (K, ') ', m, u, h, a, ' + ', m, u, h,
106                     a, ' = ', s, l, o, n);

107
108                 if K mod 24 = 0
109                     then
110                         ReadLn;

111                 D := D - [m, s];
112                 end; { for m, s 4-й }
113                 D := D - [u, 1];
114                 end; { for u, l 3-й }
115                 D := D - [h, o];
116                 end; { for h, o 2-й }
117                 D := D - [a, n];
118                 end; { for a, n 1-й }

119         {
for m := 1 to 4 do
begin
D := [];
s := m * 2;
D := D + [m, s];

for u := 0 to 4 do
begin
l := u * 2;

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if (not (u in D))
  and
  (not (l in D))
then
  D := D + [u, l]
else
  Continue;

for h := 0 to 4 do
  begin
    o := h * 2;

    if (not (h in D))
      and
      (not (o in D))
    then
      D := D + [h, o]
    else
      Continue;

    for a := 0 to 4 do
      begin
        n := a * 2;

        if (not (a in D))
          and
          (not (n in D))
        then
          D := D + [a, n]
        else
          Continue;

        muha := m * 1000 + u * 100 + h * 10 + a;
        slon := s * 1000 + l * 100 + o * 10 + n;

        if (slon = muha * 2)
          and
          (slon <= 9999)
        then
          WriteLn ('muha + muha = slon : ', muha,
            ' + ', muha, ' = ', slon);
          ReadLn;
        end;
        D := D - [a, n];
      end;
      D := D - [h, o];
    end;
    D := D - [u, l];
  end;
}

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172     ReadLn;  
173     End.
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Listing данной задачи опубликован в сети Internet по адресу  
<http://www.Best-Listing.ru/color-1-task-331.html>

Sergey Mitrofanov, 22.10.13, 23:01

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