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data val;
set valdata.val;

if iBB5f in (0,1,8) and iEliiii in (0,1,2,3,4) and iE1111 in (0,1,2,3,4) and
iElqq in (0,1,2,3,4) and iElqqq in (0,1,2,3,4) and iElrrr in (0,1,2,3,4) and
iElvv in (0,1,2,3,4) and iElxx in (0,1,2,3,4) and iE3n in (0,1,2,3,4) and
iEEE2 in (0,1,2,3,4) and iX14a in (0,1,2,3,4) and iX14b in (0,1,2,3,4) and
iX1c in (0,1,2,3,4,5) and iX1d in (0,1) and iX2a in (0,1,2,3,4,5) and
iYlao in (0,1,2,3,4,5) and 0 le AGE le 130 then do;

if AGE le 7 then do;
if iX14a = 0 then do;
if iX2a in (0,1,2) then do;
if iElrrr in (0,1) then sCHAMHPS = 0;
else if iElrrr in (2,3,4) then sCHAMHPS = 2;
end;

else if iX2a in (3,4,5) then sCHAMHPS = 2;
end;
else if iX14a = 1 then do;
if iX2a in (0,1) then sCHAMHPS = 1;
else if iX2a in (2,3,4,5) then sCHAMHPS = 3;
end;

else if iX14a in (2,3,4) then do;
if iE1111 = 0 then sCHAMHPS = 3;
else if iE1111 in (1,2,3,4) then sCHAMHPS = 5;
end;
end;

else if AGE ge 8 and AGE le 11 then do;
if iX14a in (0,1) then do;
if iX14b in (0,1) then do;
if iE3n in (0,1,2) then do;
if iEEE2 in (0,1) then sCHAMHPS = 0;
else if iEEE2 in (2,3,4) then sCHAMHPS = 2;
end;

else if iE3n in (3,4) then sCHAMHPS = 4;
end;
else if iX14b = 2 then do;
if iElqq in (0,1,2) then sCHAMHPS = 1;
else if iElqq in (3,4) then sCHAMHPS = 3;
end;

else if iX14b in (3,4) then sCHAMHPS = 4;
end;
else if iX14a = 2 then do;
if iElvv in (0,1,2) then sCHAMHPS = 3;
else if iElvv in (3,4) then sCHAMHPS = 5;
end;
else if iX14a in (3,4) then sCHAMHPS = 5;
end;

else if AGE ge 12 then do;
if iX14a in (0,1) then do;
if iX14b in (0,1) then do;
if iEliiii in (0,1,2) then do;
if iElxx in (0,1,2) then do;
if iYlao in (0,1,2) then do;
if iX1d = 0 then sCHAMHPS = 1;
else if iX1d = 1 then sCHAMHPS = 2;
end;
else if iYlao in (3,4,5) then sCHAMHPS = 3;
end;
else if iElxx in (3,4) then sCHAMHPS = 3;
end;
else if iEliiii in (3,4) then sCHAMHPS = 3;
end;
else if iX14b = 2 then sCHAMHPS = 3;
else if iX14b in (3,4) then sCHAMHPS = 5;
end;

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end;
else if iX14a = 2 then do;
if iX1c in (0,1,2,3,4) then do;
if iBB5f in (0,8) then do;
if iX2a in (0,1)
then sCHAMHPS = 3;
else if iX2a in (2,3,4,5)
then sCHAMHPS = 4;
end;
else if iBB5f = 1
then sCHAMHPS = 4;
end;
else if iX1c = 5
then sCHAMHPS = 4;
end;
else if iX14a in (3,4) then do;
if iEEE2 in (0,1) then do;
if iElqqq = 0
then sCHAMHPS = 5;
else if iElqqq in (1,2,3,4)
then sCHAMHPS = 6;
end;
else if iEEE2 in (2,3,4)
then sCHAMHPS = 6;
end;

label sCHAMHPS = 'sCHAMHPS Algorithm';

end;

run;

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