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do while (cbal(2) gt 0);
  month=month+1;
  pmt=round (pmin*tbal, 0.01); *calculate payment as percentage of balance;
  if pmt lt dmin then pmt=dmin; * set dollar minimum payment;

do I=2 TO 3;
  fc(I)=round (cbal(I)*perrate(I), 0.01); *calculate interest charges;
end;

do I=2 TO 3;
  cbal(I)=cbal(I)+fc(I); tbal=tbal+fc(I); *add interest charges to the balances;
end;

cbal(2)=cbal(2)-pmt; *applying payment to second lowest APR;
tbal=tbal-pmt;

end;

*calculate months to pay off for next lowest rate balance, if any, carrying over number
from lower rate balances;

cbal(3)=cbal(3)+cbal(2);

do while (cbal(3) gt 0);
  month= month+1;
  pmt=round (pmin*tbal, 0.01); *calculate payment as percentage of balance;
  if pmt lt dmin then pmt=dmin; * set dollar minimum payment;

  fc(3)=round (cbal(3)*perrate(3), 0.01); *calculate interest charge;

  cbal(3)=cbal(3)+fc(3); *add interest charges to balance;

  tbal= tbal+fc(3);

  cbal(3)=cbal(3)-pmt; *applying payment to remaining balance;

  tbal = tbal-pmt;

end;

* print number of months to repay debt, final balance (zero),
periodic rate;
put title=' ';
put title='number of months to repay debt, final balance';
put month= tbal=;
put title=' ';
run;

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