

cbal3=250; * outstanding balance associated with apr3;

dmin=20; * dollar minimum payment;

pmin=0.02; * percent minimum payment;

* initialize counter for months and total balance;

month=0;

tbal = 0;

*calculate periodic rates and initial total balance;

do I=1 to 3;

perrate(I)=(apr(I)/12); * calculate monthly periodic rate;

*the following formula would be used if a daily periodic rate is assumed, and a 365 day year is used with 30.41667 days per month;

*perrate = $((1+(\text{apr}(I)/365))^{**30.41667})-1$;

tbal= tbal+cbal(I);

end;

*calculate months to pay off for lowest rate balance;

do while (cbal(1) gt 0);

month = month+1;

pmt= round(pmin*tbal,.01); *calculate payment as percentage of balance;

if pmt lt dmin then pmt=dmin; * set dollar minimum payment;

do I=1 to 3;

fc(I)= round (cbal(I)*perrate(I), 0.01); *calculate interest charges;

end;

do I=1 to 3;

cbal(I)=cbal(I)+fc(I); tbal=tbal+fc(I); *add interest charges to balances;

end;

cbal(1)=cbal(1)-pmt; *applying payment to lowest APR balance;

tbal = tbal-pmt;

end;

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

cbal(2)=cbal(2)+cbal(1);