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10 REM calculate I^2R losses for a variety of resistors at a fixed current level
20 INPUT "output file:";OUTFILE$ : OPEN OUTFILE$ FOR OUTPUT AS #1
30 INPUT "Current in MA:";CURRENT
40 FOR OHMS=500 TO 50000! STEP 100
50 LOSS = (CURRENT/1000)^2*OHMS
60 PRINT OHMS;" ohms = ";LOSS;" Watts Lost"
70 PRINT #1,OHMS,LOSS
80 NEXT OHMS
90 CLOSE #1
100 GOTO 10

```

