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```
&lt; 10 THENIF x
&lt; 5 THENx =
5ELSEPRINT xEND
IFEELSEDOIF x
&lt; 50 EXITx =
x - 5END DOEND
IF2.2Step 1:
StartStep 2:
Initialize sum
and count to
zeroStep 3:
Examine top
card. Step 4: If
it says "end of
```

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data" proceed to
step 9;
otherwise,
proceed to next
step. Step 5:
Add value from
top card to sum.
Step 6: Increase
count by 1.

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equation with
the initial
condition, $v(t=0) = 0$, $c \frac{dv}{dt} + g d v^2$
Multiply

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both sides $m \frac{dv}{dt} = mg - \frac{c}{d} v^2$
Define $a = \frac{mg}{c}$
 $\frac{dv}{dt} = a - \frac{v^2}{d}$
Integrate
separation of
variables, $\int \frac{dv}{a - \frac{v^2}{d}} = \int \frac{dt}{1}$
A
table of
integrals can be
consulted to
find that $\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \ln \left| \frac{x+a}{x-a} \right| + C$
Therefore, the

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the initial
condition, $v(t=0) = 0$, v^2 m c g
 $\frac{dt}{dv} = ?d$.

Multiply both
sides by m/cd .
 gv^2 c m $\frac{dt}{dv}$ c
 m $dd = ?$. Define
 $a = mg /cd$. a^2v^2
 $\frac{dt}{dv}$ c m . $d = ?$.
Integrate by
separation of
variables, $\frac{dt}{m}$
 c a v $? \frac{dv}{d} = ?d$ 2

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