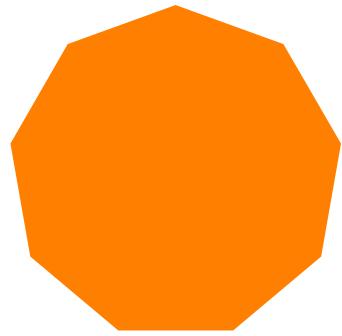
Tahm — PS 17 — 2025-04-11

Chapter 39

Chapter 40



89

```
In[48]:= f[X_, y_] := Reverse[{X, y}]
       f[cat, bat]
Out[49]=
       {bat, cat}
In[50]:= f[X_, y_] := X * y / x + y
                                         Typo! Capital X and small x are different!
       f[2, 5]
Out[51]=
In[52]:= f[X_, y_] := \{X + y, X - y, X / y\}
       f[2, 5]
                          In this one, you were consistent, so it worked.
Out[53]=
       \left\{7, -3, \frac{2}{5}\right\}
in[54]:= evenodd[x_] := If[x == 0, Red, If[EvenQ[x], Black, White]]
       evenodd[0]
                            Wolfram meant for you to use the new method
       evenodd[5]
                            of patterns in 40.6, 40.7, and 40.8. The If[]
       evenodd[6]
Out[55]=
                            statements work, but they don't apply
                            what he was emphasizing.
Out[56]=
Out[57]=
ln[58]:= f[x_, y_, z_] := If[x == 1, y + z, If[x == 2, y * z, x^y]]
       f[1, 5, 6]
       f[2, 5, 6]
       f[3, 5, 6]
Out[59]=
       11
Out[60]=
       30
Out[61]=
       243
ln[62]:= f[x_] := If[x == 1 | | x == 0, 1, f[x-1] + f[x-2]]
       f[10]
Out[63]=
```

In[64]:= animal[x_] := Interpreter["Animal"][x]["Image"] animal["cat"]

Out[65]=



In[66]:= nearwords[x_, y_] := Nearest[WordList[], x, y]

In[67]:= nearwords["cat", 3]

Out[67]=

{cat, at, bat}