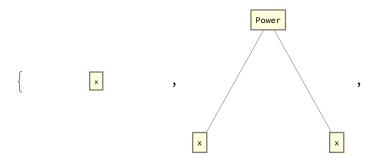
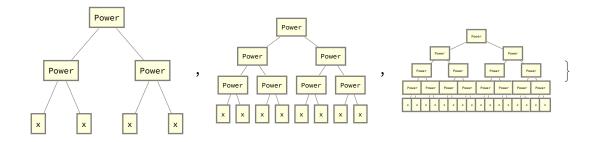
Jeremy — PS 13 — 2025-03-25

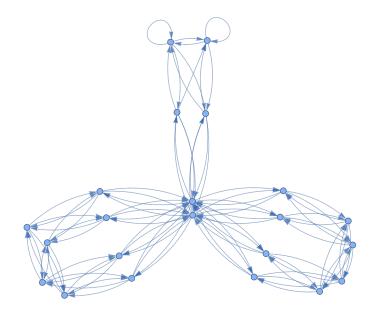
EIWL3 Sections 33 and 34





```
In[73]:= Union[Cases[Flatten[Table[i^2/(j^2+1), {i, 20}, {j, 20}]], _Integer]]
Out[73]=
{2, 5, 8, 10, 17, 18, 20, 32, 40, 45, 50, 72, 80, 98, 128, 162, 200}
```

ln[74]:= Graph[Rule @@@ Partition[Table[Mod[n^2+n, 100], {n, 100}], 2, 1]] Out[74]=



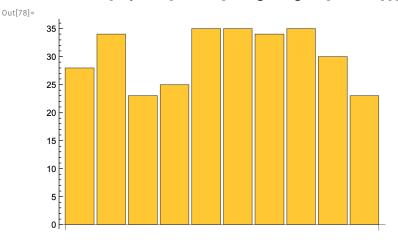
In[75]:= Graph[Rule@@@Partition[Take[TextWords[WikipediaData["computers"]], 200], 2, 1], VertexLabels → All]

Modern These Out[75]= electrical sophisticated looms that the control of t ha**v**eided

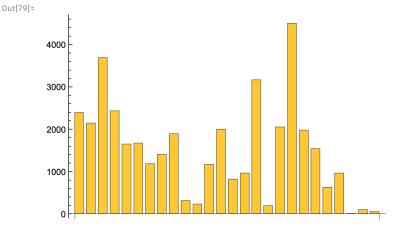
$$\begin{array}{ll} & \text{In} [76] := & \textbf{f@@@} \left\{ \{1,\,2\},\, \{7,\,2\},\, \{5,\,4\} \right\} \\ \\ & \text{Out} [76] = \\ & \left\{ \,f[\,1,\,2\,]\,,\, f[\,7,\,2\,]\,,\, f[\,5,\,4\,] \,\right\} \end{array}$$

In[77]:= Values[KeySort[Counts[IntegerDigits[3^100]]]] Out[77]=

In[78]:= BarChart[KeySort[Counts[IntegerDigits[2^1000]]]]



BarChart[Counts[First[ToUpperCase[Characters[#]]] & /@ WordList[]]]



In[80]:= TakeLargest[Counts[First[Characters[#]] & /@ WordList[]], 5]

Out[80]= $\langle | \; s \rightarrow 4499 \; , \; c \rightarrow 3693 \; , \; p \rightarrow 3168 \; , \; d \rightarrow 2433 \; , \; a \rightarrow 2393 \; | \rangle$

In[81]:= #q/#u &@LetterCounts[WikipediaData["computers"]] // N

Out[81]= 0.0401274

In[82]:= TakeLargest[Counts[TextWords[ExampleData[{"Text", "AliceInWonderland"}]]], 5]

 $\langle |$ the \rightarrow 573, and \rightarrow 319, a \rightarrow 269, to \rightarrow 248, she \rightarrow 203 $| \rangle$

In[83]:=

Out[82]=