Great. 8/8

Jeremy — PS 13 — 2025-03-25

EIWL3 Sections 33 and 34

In[69]:=
```
Head[ListPlot[{1, 2}]]
```

Out[69]=
```
Graphics
```

In[70]:=
```
Times @@ Range[100]
```

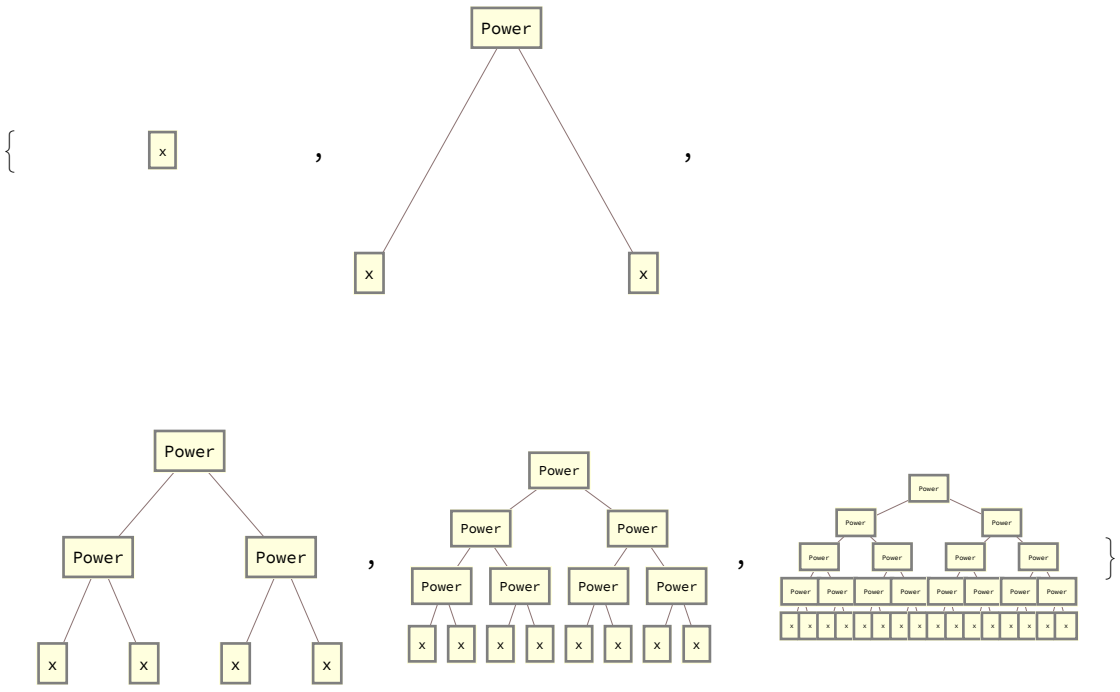
Out[70]=
```
93 326 215 443 944 152 681 699 238 856 266 700 490 715 968 264 381 621 468 592 963 895 217 599 993 ⁘
 229 915 608 941 463 976 156 518 286 253 697 920 827 223 758 251 185 210 916 864 000 000 000 000 ⁘
 000 000 000 000
```

In[71]:=
```
f @@@ Tuples[{a, b}, 2]
```

Out[71]=
```
{f[a, a], f[a, b], f[b, a], f[b, b]}
```

In[72]:=
```
TreeForm /@ NestList[# ^ # &, x, 4]
```

Out[72]=



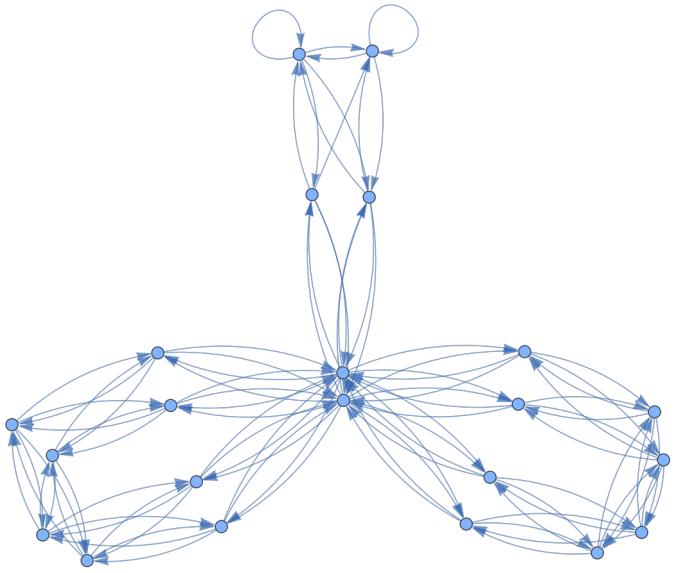
In[73]:=
```
Union[Cases[Flatten[Table[i ^ 2 / (j ^ 2 + 1), {i, 20}, {j, 20}]], _Integer]]
```

Out[73]=
```
{2, 5, 8, 10, 17, 18, 20, 32, 40, 45, 50, 72, 80, 98, 128, 162, 200}
```

Nice. You are the only one (besides me) that put Union in 33.5.

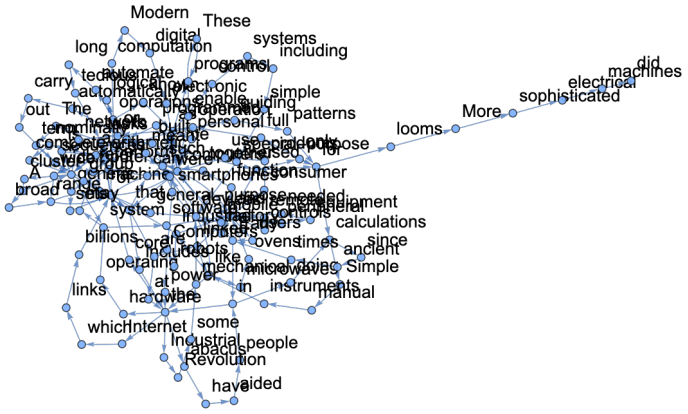
In[74]:=
```
Graph[Rule @@@ Partition[Table[Mod[n^2 + n, 100], {n, 100}], 2, 1]]
```

Out[74]=



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

Out[75]=



In[76]:=
```
f @@@ {{1, 2}, {7, 2}, {5, 4}}
```

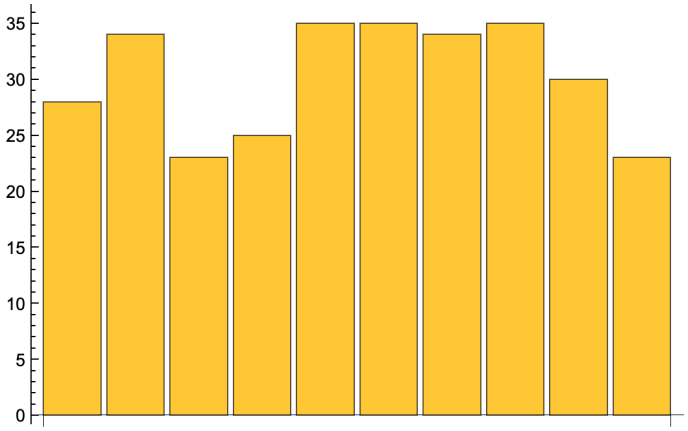
Out[76]=
```
{f[1, 2], f[7, 2], f[5, 4]}
```

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

Out[77]=
```
{7, 9, 9, 5, 1, 5, 4, 7, 1}
```

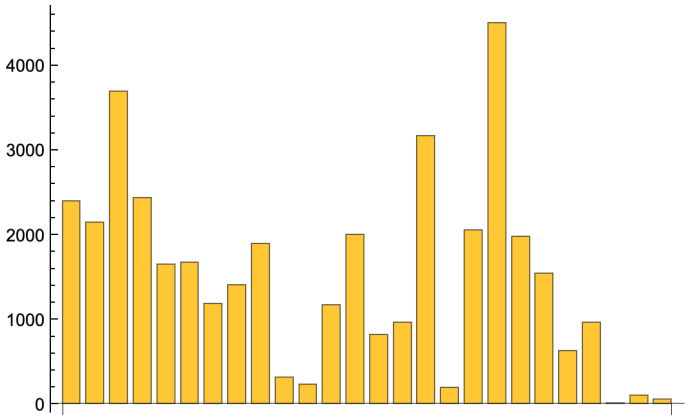
In[78]:=
```
BarChart[KeySort[Counts[IntegerDigits[2^1000]]]]
```

Out[78]=



In[79]:=
```
BarChart[Counts[First[ToUpperCase[Characters[#]]] & /@ WordList[]]]
```

Out[79]=



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

Out[80]=

```
⟨| s → 4499, c → 3693, p → 3168, d → 2433, a → 2393 |⟩
```

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

Out[81]=

```
0.0401274
```

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

Out[82]=

```
⟨| the → 573, and → 319, a → 269, to → 248, she → 203 |⟩
```

In[83]:=