Super Bonus 1: Trees

Part I: Family Trees

1. What is the longest fully tracked family tree known today?
2. In what way were Charles II of Spain's parents related? (Among other ways…)
3. How many unique great-grandparents did Alfonso XII of Spain have?
4. According to Genesis, Abraham descended from which of Noah's sons?
5. What makes the Targaryen family tree unique in Westeros?

Part II: Language Trees

6. What are the two subfamilies of Tolkien's Elvish languages?
7. What is the closest surviving relative of the English and Scots languages?
8. The Malagasy language, spoken in Madagascar, is a member of what language family?
9. Finnish and Hungarian are both members of what major language family?
10. According to xkcd, what language of the same family as Finnish and Hungarian was Shakespeare originally written in, according to science fiction lore?
11. What famous language isolate is found in France and Spain?

Part III: Regular Trees

Given the country/state, name the national tree.

12. Canada
13. Lebanon
14. Oregon
15. Malta
16. China
17. England
18. Germany
19. Russia
20. Israel
21. Japan

Superlative Trees: Answer the questions about the heaviest, tallest, and oldest trees.

22. What type of tree are the oldest trees in the world?
23. Where is the oldest one located?
24. What is the largest living single stem tree by volume on earth?
25. Where is it located?
26. What is the tallest living tree?
27. Where is it located?
28. What species is it?
29. What is the widest tree in terms of canopy area?
30. Where is it located?
31. What is the heaviest known organism?
32. What species is it?
33. What sex is it?

34. Where is it?
35. The record for rooting depth is held by a Shepherd's Tree located in what desert?

General Trees
36. Disease that has devastated American and European elm trees.
37. What animal is the vector for the disease?
38. Theory that explains how trees manage to pull water from roots to leaves.
39. Tree growing on a tree.
40. A specimen of this "living fossil" species, also known as the maidenhair tree, may be found on a path near the Mission Park dorm at Williams College.
41. The earliest tree-like organisms, including tree ferns and horsetails, emerged in this geologic period, when many coal beds were formed.

Part IV: "Trees"
### Answer the following questions about marijuana.
42. How many blunts per day did Snoop Lion claim to smoke daily in his 2012 Reddit AMA?
43. What is THC an abbreviation for?
44. On which continent did cannabis originally grow?
45. How would Arrested Development's George Michael Bluth take his weed?

Part V: Fictional Trees
46. Norse Tree
47. World of Warcraft Tree
48. LOTR trees
49. Pokemon professor trees
50. Dr. Seuss's speaker for the trees
51. Harry Potter tree
52. Mayan tree

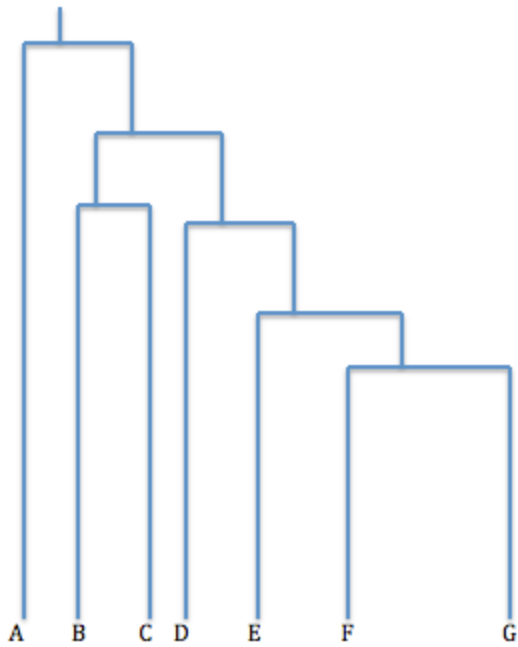## Part VI: Fill in the missing leaves of the trees on the following 7 pages.
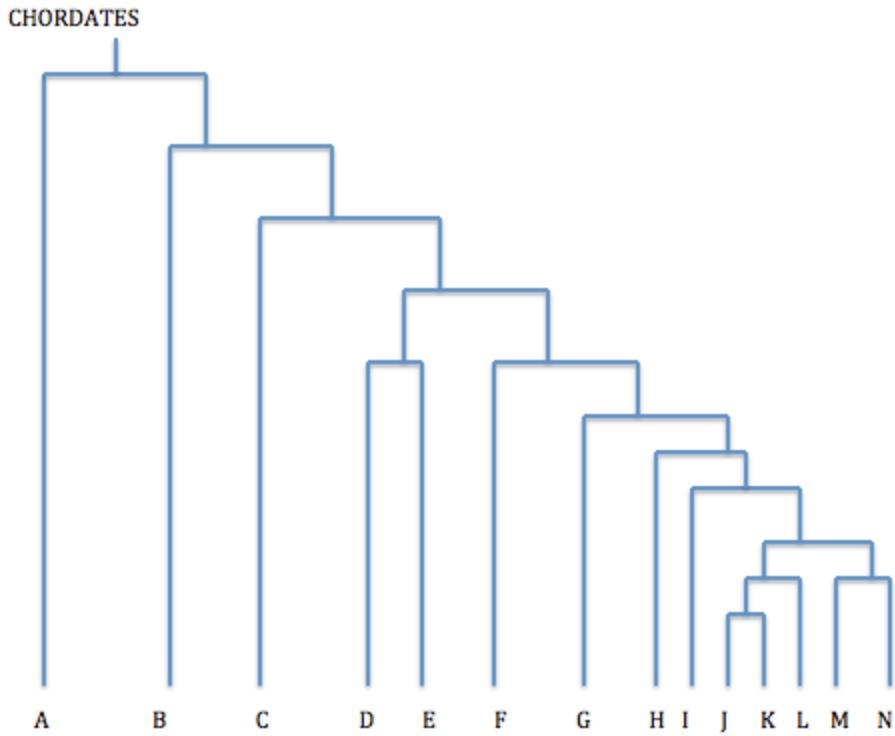
ARCHAEPLASTIDAE
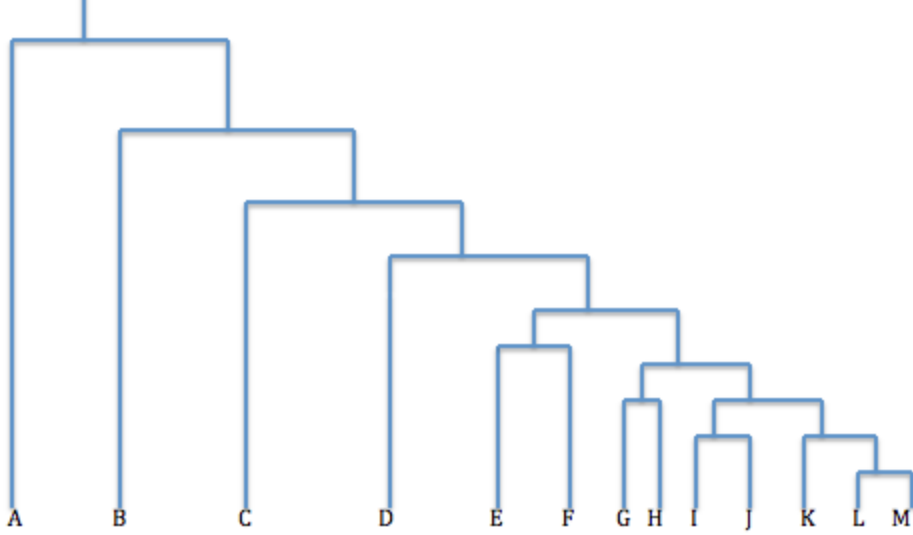
Word Bank:
Pine
Ginkgo
Tulip
Tree Fern
Horsetail
Oak
Tobacco
Sea Lettuce
Liverwort
Moss
Clubmoss
Red Algae
Spikemoss

ARTHROPODS

```
                    ARTHROPODS
                        |
            ┌───────────┴───────────┐
            |                ┌───────┴───────┐
            |                |        ┌───────┴───────┐
            |         ┌──────┴──────┐ |     ┌─────────┴─────────┐
            |         |             | |     |       ┌───────────┴───────────┐
            |         |             | |     |       |                       |
            A         B             C D     E       F                       G
```

Word Bank:
Monarch Butterfly
Black Widow Spider
Millipede
Water Bears
Lobster
Horseshoe Crab
Earwig

CHORDATES

A   B   C   D   E   F   G   H   I   J   K   L   M   N

Word Bank:
Echidna
Crocodile
Coelacanths
Ostrich
Rabbit Fish
Salmon
Lungfish
Salamander
Human
Sea squirt
Lancet
Lamprey
Great White Shark
Opossum

BOREOEUTHERIA

A   B   C   D   E   F   G   Human   I   J   K   L
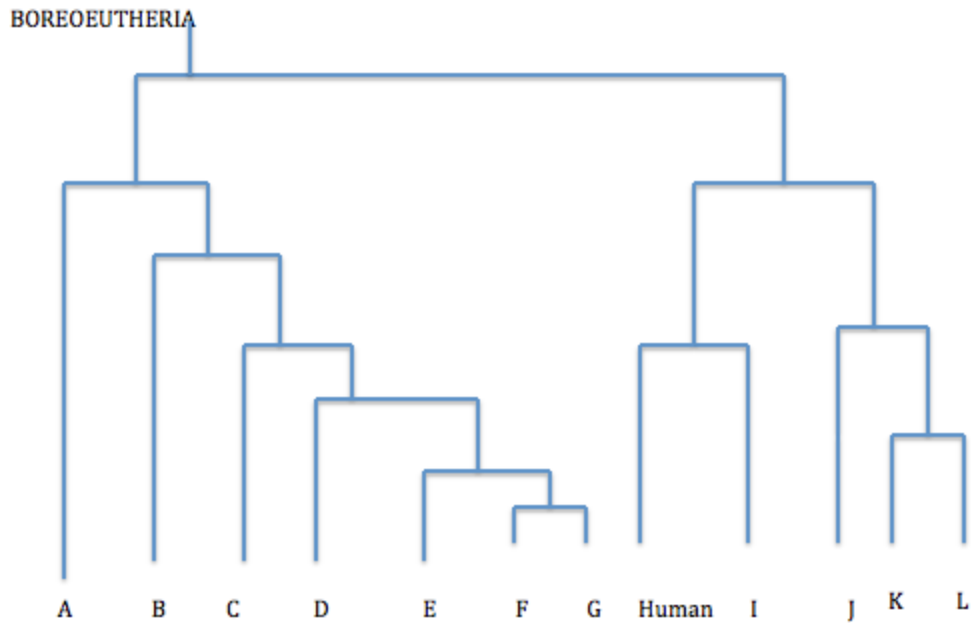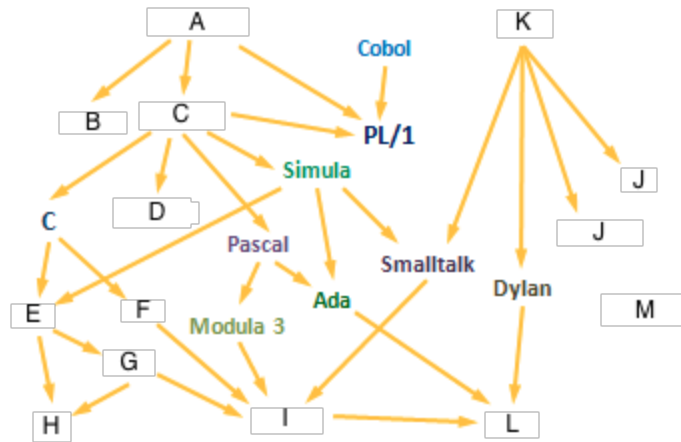
Word Bank:
Shrew
Sea otter
Pangolin
North American Porcupine
Panther
Bear
Rabbit
Wolf
Human
Tree Shrew
Whale
Mouse

Primates

A   B   C   D   E   F   Human   H   I
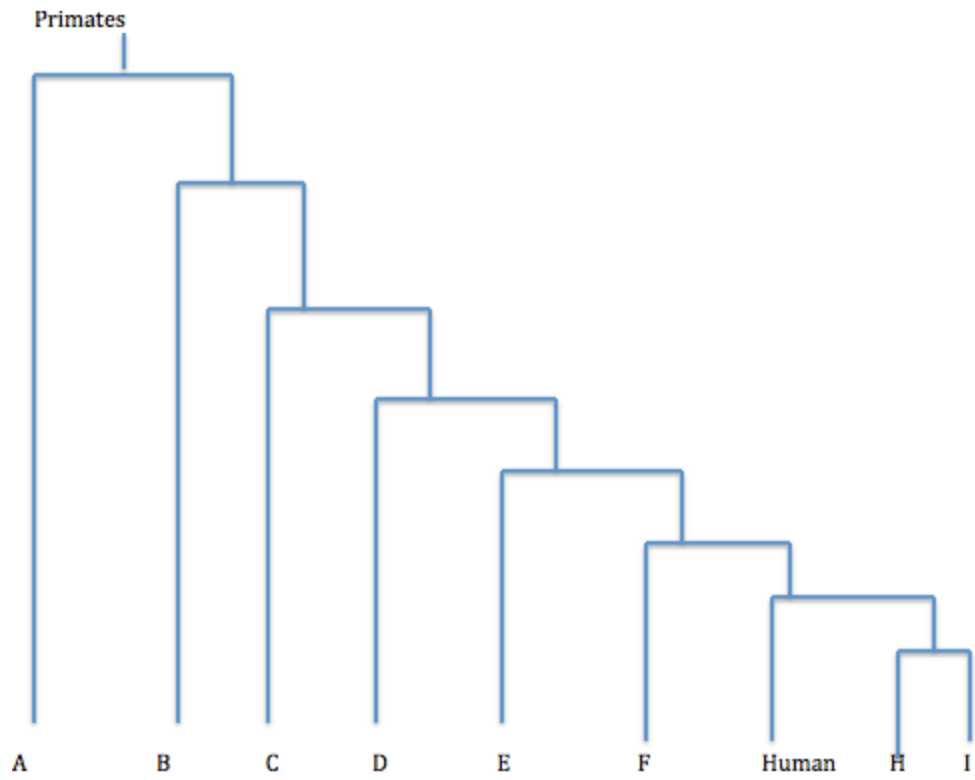
Word Bank:
Macaque
Orangutan
Gorilla
Aye-Aye
Chimpanzee
Bonobo
Gibbon
Human
Marmoset
Flying Lemur
Tree Shrew

Word Bank:
LISP
Fortran
Algol 60
BASIC
Algol 68
Perl
Scheme
Prolog
ML
Ruby
Python
Java
C++
C#

The Black Family - Harry Potter
Any Potter fan knows that the Black family is obsessed with the purity of its family tree.
When members of the family stepped out of line, they were "burned" from the family tree.
Try to fill in these mudbloods and rejects

The Noble and Most Ancient House of

BLACK

(there are many stories between the lines)

Sirius
1845–1853

Phineas
Nigellus — Ursula
1847–1925   Flint

Elladora
1850–1931

Sirius — Hesper
1877–1952   Gamp

Cygnus — Violetta
1889–1943   Bulstrode

Belvina — Herbert
1886–1962   Burke
2 sons
1 daughter

Arcturus — Lysandra
1884–1959   Yaxley

Arcturus — Melania
1901–1991   McMillan

Lycoris
1904–1965

Regulus
1906–1959

Pollux — Irma
1912–1990   Crabbe

Cassiopeia
1915–1992

Dorea — Charlus
1920–1977   Potter
1 son

Callidora — Harfang
1915–   Longbottom
1 son
1 daughter

Charis — Caspar
1919–1973   Crouch
1 son
2 daughters

Lucretia — Ignatius
1925–1992   Prewett

Orion
1929–1979

Walburga
1925–1985

Cygnus — Druella
1929–1979   Rosier

Regulus
1961–1979

Bellatrix — Rodolphus
1951–1998   Lestrange

Narcissa — Lucius
1955–   Malfoy

Draco
Malfoy
1980–

Credits: Aberforth the Marauder (intelligence), Marco Bartoloni (tree design), Lisa Bunker (crest);
after a tree drawn by J.K. Rowling.