

Homework 1

Bipartitions found in one or more trees and frequency of occurrence (bootstrap support values):

ABCDEFGHIJKL	Freq

.***.....***	100
.....**.	98
.....*.*.....	91
...*.....*	85
.*.....**.	67
.....*.*.....	59
.*****.***	46
.*****.***	41
..**.....*	34
......	32
.....*.****.	11
.***.**.	5

Draw an unrooted tree topology using the splits defined to the left. Use the taxon letters (A, B, ..., L) in the split table as the leaf node names on your drawing.

Start with the topmost split and work down the list until you reach a point where you find that you cannot add the next split (because it conflicts with splits already added).

Turn in the tree, with edges (not vertices) labeled with the correct split frequency from the table.

Hint: polytomies (nodes with degree > 3) are possible, and every internal branch in your tree should be labeled with a split frequency.

I've done the first split (frequency 100) for you below.

