6.849: Geometric Folding Algorithms, Fall 2020
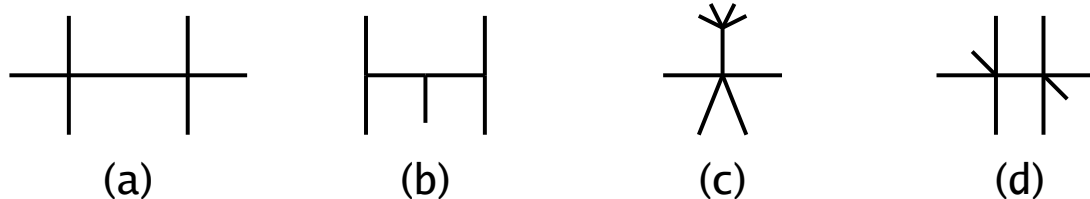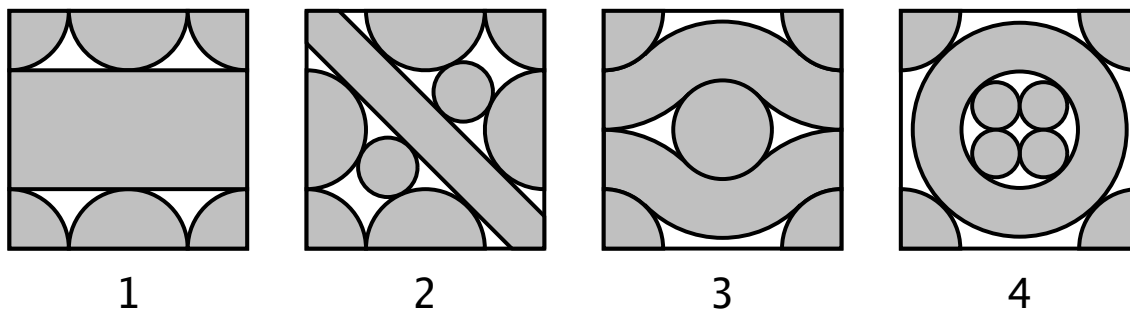Prof. Erik Demaine, Martin Demaine, Yevhenii Diomidov, Klara Mundilova

Problem Set 3

Due: Thursday, September 24, 2020

Problem 3.1 [Tree Matching]. Match the disk/river packings (1, 2, 3, 4) to trees (a, b, c, d).

1   2   3   4

(a)   (b)   (c)   (d)

Problem 3.2 [Tree Drawing]. Pick a uniaxial origami design with a crease pattern online, and draw the corresponding tree / stick figure. Label the vertices of the tree and their location on the crease pattern. Submit the tree and the labeled copy of the crease pattern you reconstruct, along with the link to the original.

Here are some suggested possible sources, but you are not limited to these:

Origami CP collection	https://origami.me/crease-patterns/
Robert Lang	https://langorigami.com/artworks/
	or any from his book *Origami Design Secrets*, 2nd edition, pages 686–697
Jason Ku	http://jasonku.mit.edu/gallery.html
Brian Chan	http://www.mit.edu/~chosetec/origami/
Satoshi Kamiya	https://www.folders.jp/
Sipho Mabona	https://www.flickr.com/photos/sipmab/albums/72157600600415783
Nguyen Hung Cuong	https://www.flickr.com/photos/blackscorpion/albums/72157601555377139