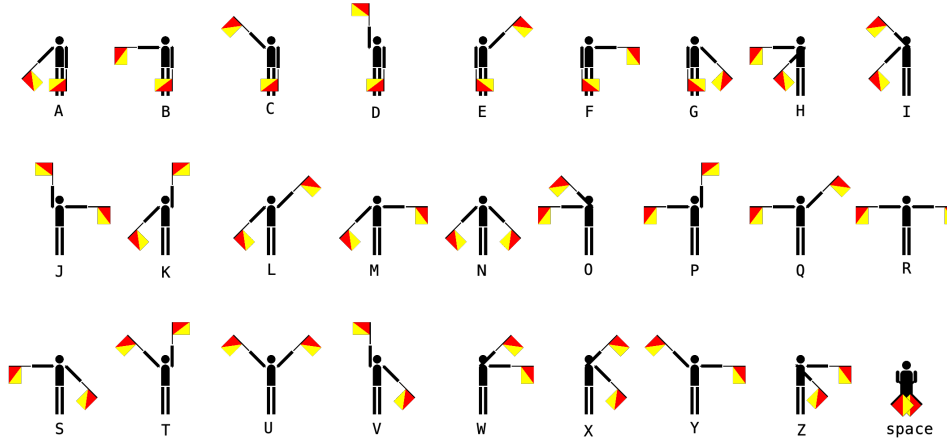




Problem of the Week

Problem B

Flangles

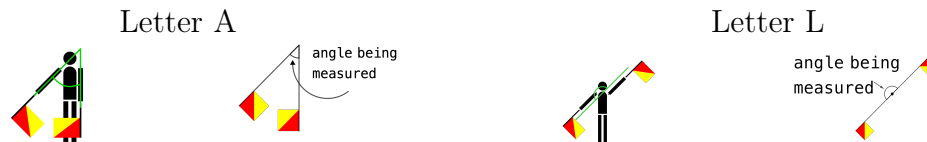


Semaphore signal flags are used to communicate in places such as on aircraft carriers. Each letter is represented by a specific position of the two flags. Each flag is placed vertically, horizontally, or exactly halfway between the vertical and the horizontal.

- a) Add each letter to the table below by looking at the type of angle between the two flags in the signal for that letter. Letters A and L are already placed. The ‘space’ is not a letter. It is used to put a space between words. Assume the angles are between 0° and 180° , but can also include 0° and 180° .

Angle Type	Letters
Acute	A,
Right	
Obtuse	
Straight	L,

Here is how we know that the angle for letter A is acute and for letter L is straight:



- b) When communicating with semaphore signal flags, there are only four different angle measurements between the two flags. What are these angles? Assume the angles are between 0° and 180° , but can also include 0° and 180° .
- c) Try to communicate a simple message to a friend using your arms as semaphores.