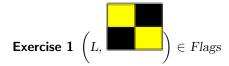
**Definition 1.** The map below defines the **Flags** relation.



The **Flags** relation includes three sets:

- The domain consists of the 26 flags in the table.
- The codomain consists of the 26 letters in the English alphabet.
- A set of ordered pairs. The pair (flag, letter) is a member of the Flags relation if the table pairs the flag and letter.



## Multiple Choice:

(a) True

(b) False ✓

Feedback (attempt): (flag, letter)

Exercise 2 
$$(U) \in Flags$$

## Multiple Choice:

- (a) True ✓
- (b) False

Feedback (attempt): (flag, letter)

**Definition 2.** The value of a function at a particular domain element is also called the **image** of the domain element.

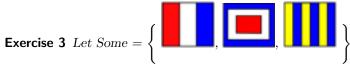


$$Flags \left( \begin{array}{c} \\ \\ \end{array} \right) = T$$

**Definition 3.** The domain of the Flags function includes 26 flags. The domain is a **set**. A separate collection of some of these flags would form a **subset** of the domain.

Suppose D is a subset of the domain.

The **Image** of D would be the subset of the range consisting of the images of all of the elements of D. The image of D under the Flags function is written as Flags(D).



Determine Flags(Some)

## Select All Correct Answers:

- (a) *X*
- (b) *T* ✓
- (c) B
- (d)  $G\checkmark$
- (e) *W*√

**Feedback (attempt):** The image is the subset  $\{T, W, G\}$