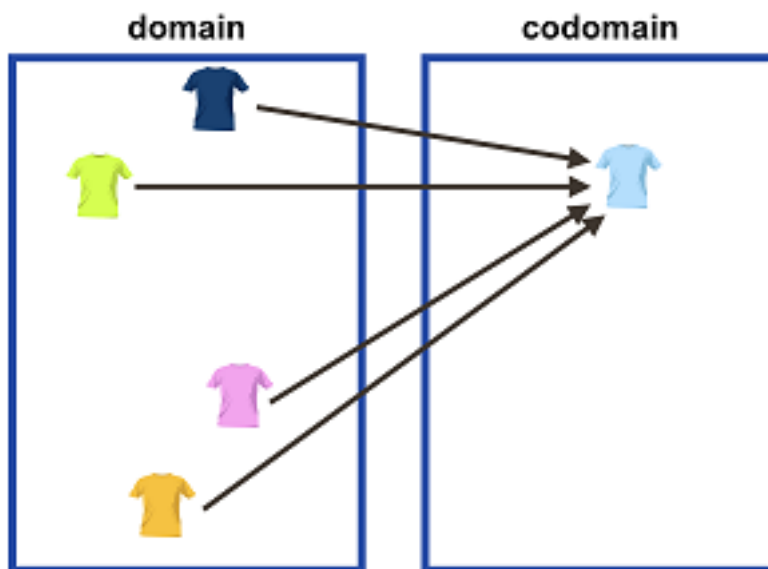


Definition 1. The map below defines the **Blue** relation. *Blue* is a function, since each item in the domain is partnered with exactly one item in the codomain.





The **Blue** function is a **constant** function. Every value of *Blue* is the same or its value stays constant throughout the domain.

Exercise 1 ( , ) \in *Blue*

Multiple Choice:

- (a) True ✓
- (b) False

Feedback (attempt): ( , )

Exercise 2 Is *Blue* a well-defined function?

Multiple Choice:

- (a) Yes ✓

(b) No

Feedback (attempt): Each domain shirt is associated with exactly one codomain shirt.

Exercise 3 How many items are in the range of Blue?

Feedback (attempt): All arrows point to one codomain shirt.

Exercise 4 $\text{Blue}(\text{👕}) = \text{Blue}(\text{👕})$

Multiple Choice:

(a) True ✓

(b) False

Feedback (attempt): Both expressions evaluate to the same codomain value. They are equal.
