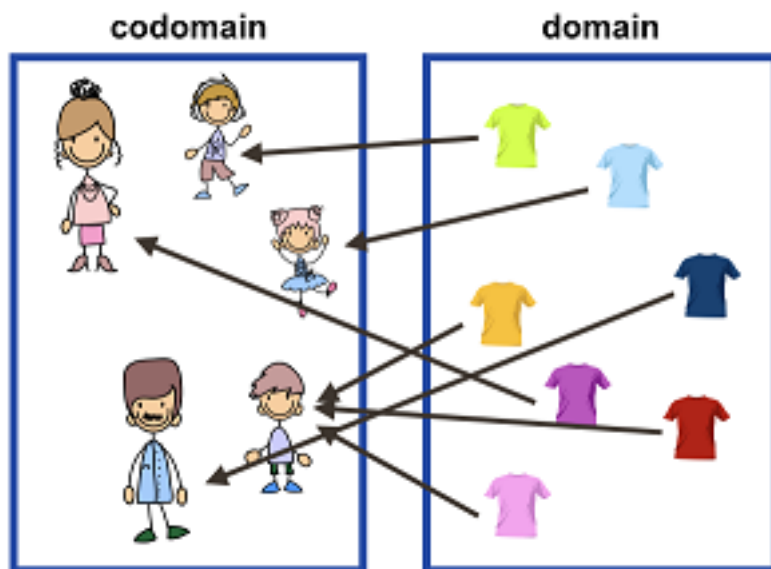


Definition 1. The relation *sparrow* is defined via the map below.



The domain, codomain, and pairs are all shown.

Exercise 1 How many items are in the domain of *sparrow*?

Exercise 2 How many items are in the codomain of *sparrow*?

Exercise 3 Is every domain member paired with exactly one codomain member?

Multiple Choice:

- (a) Yes ✓
- (b) No

Exercise 4 Is every codomain member paired with exactly one domain member?

Multiple Choice:

- (a) Yes

(b) No ✓

Exercise 5 *Is the sparrow relation a function?*

Multiple Choice:

(a) Yes ✓

(b) No
