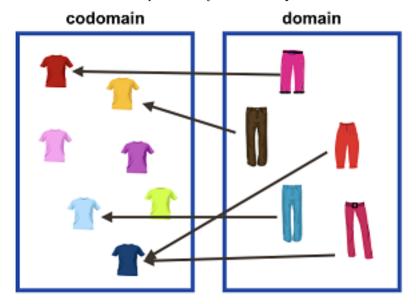
Definition 1. The map below defines the **Outfit** relation.



The Outfit relation includes three sets:

- The domain consists of 5 pairs of pants identified in the map.
- The codomain consists of the 7 shirts identified in the map.
- A set of ordered pairs. The pair (pants, shirt) is a member of the Outfit relation if the pants are associated to the shirt with an arrow.



Multiple Choice:

- (a) True
- (b) False ✓

Feedback (attempt): Outfit contains pairs ordered as (pants, shirt).

Exercise 2 Is Outfit a well-defined function?

Multiple Choice:

- (a) Yes ✓
- (b) *No*

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

Exercise 3 How many items are in the range of Outfit? $\boxed{4}$

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



Multiple Choice:

- (a) True ✓
- (b) False

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



Multiple Choice:

- (a) True
- (b) False ✓

Feedback (attempt): The expressions evaluate to different shirts.

Definition 2. A function is said to be **onto** if the range equals the codomain. In other words, if every item in the codomain appears as a partner in some pair.

Exercise 6 *Is Outift an onto function?*

${\it Multiple\ Choice:}$

- (a) Yes
- (b) *No* ✓

Feedback (attempt): Some shirts in the codomain are not included in function pairs, like the pink shirt.