## Source:

## 1 | well defined def

A function  $f: X \to Y$  is a relation f from X to Y satisfying:

- 1.  $\forall x \in X$ ,  $\exists y \in Y$  s.t.  $(x,y) \in f$  (every element of the domain has an image)
- **2.**  $\forall x \in X$ ,  $\forall y_1, y_2 \in Y$ ,  $(x, y_1), (x, y_2) \in f$

A function is well defined if:

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