# Security Functions II

We now understand the definition of functions.

If $f(x) = y$, where $x \in X$ and $y \in Y$ then $y$ is called an image of $x$, and $x$ is called the preimage of $y$.

Given $x_1, x_2 \in X$ and $y_1, y_2 \in Y$,

$f(x_1) = y_1$ and $f(x_2) = y_2$

We call the function $f : X \to Y$ as $1 - 1$ (one-to-one) if:

$$f(x_1) = f(x_2) \implies x_1 = x_2$$

Let us define a particular one-to-one function as $f_2 : X \to X$, such that $f_2(x) = x^2$

where $X = \{1, 2, 3, 4, \ldots\ldots\}$.

The function defined in the previous challenge is not one-to-one because:

$$f_1(0) = f_1(11) = 0, 0 \neq 11$$

Your task is to complete the function that takes $x$ as the input and return $x^2$.

**Constraints**

$$1 \leq x \leq 1000$$