$f: A \to B$

If every $a \in A$ appears in at most one pair - function $f(a) =$ corresponding element in $B$.

If at least one pair - total $(a, f(a))$ is relation.

If every $b \in B$ appears in at most one pair - injective.

If at least one pair - surjective. All pairs, injection $f$ appear in exactly 1 pair.