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**Algorithm 3.1.24** Determine whether a function from a finite set of integers to a finite set of integers is injective

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1: procedure INJECTION( $f$ : function;  $A$ : finite set of integers;  $B$ : finite
   set of integers)
2:   for  $a \in A$  do
3:     for  $b \in A$  do
4:       if  $f(a) = f(b)$  and  $a \neq b$  then
5:         return  $\perp$ 
6:       end if
7:     end for
8:   end for
9:   return True
10: end procedure
```

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