––––––––––––––––––––––– MODULE *FunctionUtils* –––––––––––––––––

$Range(f) \triangleq \{f[a] : a \in \text{DOMAIN } f\}$

$Injective(f) \triangleq \forall\, a,\, b \in \text{DOMAIN } f : (a \neq b) \Rightarrow (f[a] \neq f[b])$

$Surjective(f,\, B) \triangleq \forall\, b \in B : \exists\, a \in \text{DOMAIN } f : f[a] = b$

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\ * *Last* modified *Tue Dec* 04 19:38:21 *CST* 2018 by *hengxin*
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