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— MODULE addressbook -
Constants Names, Emails
Variable address
Invariant \stackrel{\triangle}{=} address \in [Names \rightarrow Emails]
Init \stackrel{\triangle}{=} address = \langle \rangle A different ideom for an empty function . . .
Add(name, email) \stackrel{\triangle}{=}
       \mathit{address'} = [n \in \mathsf{DOMAIN} \ \mathit{address} \cup \{\mathit{name}\} \mapsto
                                  If n \in \text{domain} address
                                  THEN address[n]
                                  ELSE email
Remove(name) \stackrel{\triangle}{=}
     address' = [n \in DOMAIN \ address \setminus \{name\} \mapsto address[n]]
Find(name) \triangleq
       \land name \in \text{domain} \ address
       \land UNCHANGED address
Next \triangleq
     \exists n \in Names, e \in Emails:
         \vee Add(n, e)
         \vee Remove(n)
         \vee Find(n)
```

- $\backslash * \ {\it Modification History}$
- * Last modified Fri Feb 12 21:15:28 GMT 2021 by alunm
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