```
\overrightarrow{\mathbf{H}}\mathbf{ashing!}
\overrightarrow{\mathbf{Syntax:}}
(Gen, H)
Gen(1^{\lambda})
1^{\lambda}
S
H^{S}(x)
S \in \{0, 1\}^{*}
h \in \{0, 1\}^{l}
\mathbf{Remarks:}
l(\lambda)
H^{S}
S \in \{0, 1\}^{l}
H \in \{0, 1\}^{l}
H : \{0, 1\}^{l'} \rightarrow \{0, 1\}^{l'}
     Pr[Hash{-}Col_{\mathcal{A}}(\lambda) = 1] < v(\lambda)
Pr[\exists i, j : \mathcal{H}(s||x_i) = \mathcal{H}(s||x_j)] \le q^2 2^{-\lambda} = negl(\lambda)(unionbound)
     com-
pu-
ta-
tion-
ally
```