

# A short algorithm helper

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## 1 Dependencies

algorithm2e, cleveref, xcolor

## 2 Usage

`\algorithframe{Name}{Input}{Output}{Input of function}{Content}`

## 3 Exemple

```
\algorithframe{AlgoName}{SomeType $F, \ G$}{$F \times G$}{$F, \ G$}{
  $\text{SomeType} \ L$ \;
  \ForAll (\keycomment{Comment after a keyword}) {$\tau \in F^\tau$} {
    $L[\tau] \leftarrow G(\tau + F(\tau)) + F(\tau)$ \;
  }
  $L[0] = F[0]$ \comment{Comment after instruction}
  \Return{$L$}
}
```

Ref of AlgoName is `\ref{alg:AlgoName}` or `\cref{alg:AlgoName}`

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**Algorithm 1:** AlgoName

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**input** : SomeType  $F, G$

**output** :  $F \times G$

1 **Function** AlgoName( $F, G$ ):

2     SomeType  $L$

3     **forall**  $\tau \in F^\tau$  **do** *// Comment after a keyword*

4          $L[\tau] \leftarrow G(\tau + F(\tau)) + F(\tau)$

5      $L[0] = F[0]$  *// Comment after instruction*

6     **return**  $L$

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Ref of AlgoName is 1 or algorithm 1