

```
\dfn{Title}{Content}
```

Definition 0.0.1: Title

Content

```
\dfnc{}{}
```

Definition 0.1

```
\qs{}{}
```

Question 1

```
\nt{}
```

Note:-

```
\clm{}{}
```

Claim 0.0.1

```
\ex{}{}
```

Example 0.0.1

```
\thm{}{}
```

Theorem 0.0.1

```
\pf{}
```

Proof: □

```
\cor{}{}
```

Corollary 0.0.1

```
\mlemma{}{}
```

Lemma 0.0.1

```
\mprop{}{}
```

Proposition 0.0.1

Algorithm

```
\begin{algorithm}[H]
\caption{Example}
\KwIn{This is some input}
\KwOut{This is some output}
\SetAlgoLined
\SetNoFillComment
\tcc{This is a comment}
\vspace{3mm}
some code here\;
 $x \leftarrow 0$ \;
 $y \leftarrow 0$ \;
\uIf{ $x > 5$ } {
     $x$  is greater than 5 \tcp*{This is also a comment}
}
\Else {
     $x$  is less than or equal to 5\;
}
\ForEach{ $y$  in  $0..5$ } {
     $y \leftarrow y + 1$ \;
}
\For{ $y$  in  $0..5$ } {
     $y \leftarrow y - 1$ \;
}
\While{ $x > 5$ } {
     $x \leftarrow x - 1$ \;
}
\Return Return something here\;
\end{algorithm}
```

Algorithm 1: Example

Input: This is some input

Output: This is some output

/ This is a comment */*

```
1 some code here;
2  $x \leftarrow 0$ ;
3  $y \leftarrow 0$ ;
4 if  $x > 5$  then
5 |    $x$  is greater than 5 ;                                // This is also a comment
6 else
7 |    $x$  is less than or equal to 5;
8 end
9 foreach  $y$  in  $0..5$  do
10 |    $y \leftarrow y + 1$ ;
11 end
12 for  $y$  in  $0..5$  do
13 |    $y \leftarrow y - 1$ ;
14 end
15 while  $x > 5$  do
16 |    $x \leftarrow x - 1$ ;
17 end
18 return Return something here;
```
