

# Sample document

Hiroki Hamaguchi

December 7, 2025

## Appendix A Check LLText

Wrong LaTeX math environment:

```
\begin{align}
\end{equation}
```

## Appendix B LLSetBar

Detecting inappropriate use of the vertical bar | is very difficult. We are currently trying to detect the following, although not implemented yet.

```
\lvert -1 \rvert      |-1|    ol
\abs{-1}           |-1|    ol
\vert -1 \vert     |-1|    ng
|-1|              |-1|    ng
```

\lVert	-x	\rVert	$\  -x \ $	ok
\norm{-x}			$\  -x \ $	ok
\Vert	-x	\Vert	$\  -x \ $	ng
\ -x\			$\  -x \ $	ng

<code>\relmiddle </code> (macro)	$\{a \mid a > \frac{1}{2}\}$	ok
<code>\mid</code>	$\{a \mid a > \frac{1}{2}\}$	ok?
<code> </code>	$\{a \mid a > \frac{1}{2}\}$	ng

\divides	(MnSymbol)	+2   +4	ok
\mid		+2   +4	ok?
\mathrel		+2   +4	ok?
\vert		+2   +4	ng
		+2   +4	ng

$f(y x)$	$f(y x)$	ok?
$f(y \mid x)$	$f(y x)$	ok?
$f(,y\mid x,)$	$f(y x)$	ok?
$\backslash left. \cdot \backslash dv{t} \backslash right _{t=0} f(t)$	$\frac{d}{dt} _{t=0} f(t)$	ok?