Conversion Set A: replace and wrap, 0 or more *'s

General: LaTeX_tag{*text*} → Markdown_tag_*lefttext*Markdown_tag_right OR LaTeX_tag*{*text*} → Markdown_tag_*lefttext*Markd
OR

Example: \part{*text*} → *$text*# OR\part*{*text*} → $*text*#

LaTeX_tag	Markdown_tag_left	Markdown_tag_left	Comments
part	#	#	∃ a space after Markdown_tag_left
section	##	##	∃ a space after Markdown_tag_left
subsection	###	###	∃ a space after Markdown_tag_left
subsubsection	####	####	∃ a space after Markdown_tag_left
paragraph	#####	#####	∃ a space after Markdown_tag_left
textbf	**	**	
emph	*	*	
caption	*	*	Arbitrary superset decision - captions not supported in Markdown
mathmd			remove it

Conversion Set B: begin/end insertion

General: \begin{LaTeX_tag} *text* \end{LaTeX_tag} → Markdown_tag\begin{LaTeX_tag} *text* \end{LaTeX_tag}Markdown_tag
Example: \begin{eqnarray} *text* \end{eqnarray} → $$\begin{eqnarray} *text* \end{eqnarray}$$

LaTeX_tag	Markdown_tag	Comments
eqnarray	$$	MathJax syntax

Conversion Set C: find and replace

General: LaTeX_tag → Markdown_tag
Example: \item → *

LaTeX_tag	Markdown_tag	Comments
\item	*	
\begin{itemize}		i.e. remove the LaTeX_tag
\end{itemize}		i.e. remove the LaTeX_tag
\begin{tabular}		i.e. remove the LaTeX_tag
\end{tabular}		
\begin{minipage}	\n***\n	
\end{minipage}	\n***\n	
\framebox{		
\&	&	
/#	#	
/$	$	
/%	%	
\textasciicircum{}	^	
{*}	*	
_	_	
{[}	[	
{]}	]	
\{	{	
\}	}	
\textbackslash{}	\\	
\textasciitilde{}	~	
\[	$$	LaTeX's centered equation syntax
\]	$$	LaTeX's centered equation syntax
*\n	*\n	where * is actually [space]*

Conversion Set D: Environment Specific Find and Replace

General: \begin{LaTeX_environment} *text* LaTeX_tag *text* \end{LaTeX_environment} → \begin{LaTeX_environment} *text* Markdown_tag *text* \end{LaTeX_environment}

LaTeX_environment	LaTeX_tag	Markdown_tag	Comments
tabular	1st: \hline		only the first hline
tabular	2nd: \hline	—-|—-	# of |'s depend on # of columns, i.e. # of c's in {c|c|c|c} expression
tabular	rest: \hline \n		i.e. remove the LaTeX_tag
tabular	&	|	i.e. remove the LaTeX_tag
\tabularnewline			Whenever ∃ \hline, there ∃ \tabularnewline