The append example

This is a classic example of a Prolog program, which appends two lists:

```
\begin{split} & \operatorname{app}([]\hspace{0.1cm},\!X\hspace{0.1cm},\!X)\hspace{0.1cm}.\\ & \operatorname{app}([X\hspace{0.1cm}|\hspace{0.1cm}Y]\hspace{0.1cm},\!Z\hspace{0.1cm},\![X\hspace{0.1cm}|\hspace{0.1cm}W]\hspace{0.1cm})\hspace{0.1cm}:-\hspace{0.1cm}\operatorname{app}(Y\hspace{0.1cm},\!Z\hspace{0.1cm},\!W)\hspace{0.1cm}. \end{split}
```

Try now running it!