Known Non- Context Free Languages

Here is a sampling of languages that are known Context Free, as discussed in class.

```
 \{ww \mid w \in \{a, b\}^*\} 
\{abc\} 
\{abcd \mid i,j,k,l \ge 0, i=k \& j=l \} 
\{w \in \{0,1\}^+ \mid w, interpreted as a binary number, is a prime number \} 
\{1^n \mid n \text{ is a prime number } \}
```

As well as variations on these languages where the only difference is substituting different alphabet symbols that do not change the nature of the language.