

# Exercise

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What is the output of the following LaTeX code?

```
The \textbf{quick} \textit{brown} \textsl{fox} jumps  
\textsf{over} the \texttt{lazy} \textsc{Dog}
```

The **quick** *brown fox* jumps over the lazy **DOG**

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# Exercises

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What would the output of the following code be?

```
\begin{sffamily}  
The quick brown fox  
\end{sffamily}
```

```
jumps over \bfseries the lazy dog
```

The quick brown fox  
jumps over **the lazy dog**

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# Exercise

- Write the code that reproduces the following LaTeX:

The sum of a geometric series is:

$$\sum_{k=0}^n ar^k = ar^0 + ar^1 + ar^2 + ar^3 + \dots + ar^n$$

We can rearrange the equation to produce the simple formula:

$$\sum_{k=0}^n ar^k = \frac{a(1 - r^{n+1})}{1 - r}$$

# Exercise

The sum of a geometric series is:

```
\begin{displaymath}
\sum_{k=0}^n ar^k = ar^0 + ar^1 + ar^2 + ar^3 + \dots + ar^n
\end{displaymath}
```

We can rearrange the equation to produce the simple formula:

```
\begin{displaymath}
\sum_{k=0}^n ar^k = \frac{a(1-r^{n+1})}{1-r}
\end{displaymath}
```