Part II
Listing

Listing 1 is what might be needed to replicate the code within subsequent listings. Check the documentation portion of the source file, `ccool.dtx`, for exhaustive settings.

Listing 1.

```
%     \usepackage{amsmath, amsthm, commath}
%     \usepackage[T1]{fontenc}% \char`[
%
```

Listing 2.

x @ y
x % y @ z
x & y
x & y
x & y & z
x, y & z
x, y & z

Listing 3.

{H}.{e}.{l}.{l}.{o}, [world!]

Listing 4.

{H}.{e}.{l}.{l}.{o}, [world!]

Listing 5.

We call $\omega_1, \ldots, \omega_n$ the elementary events, and

$$\Omega = (\omega_1, \ldots, \omega_n)$$

the sample space.

Listing 6.

Let $\{\Omega, \mathcal{F}, \mathcal{P}\}$ denote the probability space, where $\mathcal{F} \subset 2^{\Omega}$.

Listing 7.

$$\Omega \; \mathcal{F} \; \mathcal{P}$$

Listing 8.

Theorem 1 (Mittelwertsatz für n Variable) *Es sei $n \in \mathbb{N}$, $D \subseteq \mathbb{N}^n$ eine offene Menge und $f \in C^1(D, \mathbb{R})$. Dann gibt es auf jeder Strecke $[x_0, x] \subset D$ einen Punkt $\xi \in [x_0, x]$, so dass gilt*

$$\frac{f(x) - f(x_0)}{x - x_0} = \mathrm{grad} f(\xi)^\top$$

(Check: ξ)

Listing 9.

$\mathbb{N}$ $\mathbb{R}$ D C^1 $[x_0, x]$