Part II
Listing

Warning: To reproduce the listings in a LaTeX document, use the same formatting instructions as those of the documentation portion of `oops.dtx` (such as `\documentclass`, `\usepackage`, and `\newtcblisting`), and remove any `^^A`. Any deviation from the original may require tinkering.[1]

Listing 1.

```
^{x}% {y} @ {z}$                {x}{y}{z}
^(x)% (y) @ (z)$                (x)(y)(z)
^{x}, {y} & {z}$                {x}{y}{z}
[{x}% {y} @ {z}]                {x}{y}{z}
```

Listing 2.

```
{x}{y}{z}
```

Listing 3.

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

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

the sample space.

Listing 4.

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

Listing 5.

```
\Omega \mathcal{F} \mathcal{P}
```

Listing 6.

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

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

[1] For instance, in testing v1.1, I realized `\usepackage[T1]{fontenc}` was needed, to work with `\documentclass{article}` in place of `\documentclass[full]{l3doc}`, hence added it to the documentation portion of `oops.dtx`

Listing 7.

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