Errata of *Logical Foundations of Mathematics and Computational Complexity*

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If you spot any errors that are not listed below (there are certainly many), please, send them to pudlak@math.cas.cz

**page 326** The heuristic estimate of the convergence of Collatz sequences *is correct*, but not explained correctly. If we count the *arithmetic* mean, then the numbers decrease by the factor

\[
\frac{1}{2} \cdot \frac{1}{2} + \frac{1}{4} \cdot \frac{1}{4} + \frac{1}{8} \cdot \frac{1}{8} \cdots = \frac{1}{3},
\]

before we get another odd one. However, we need to estimate what happens after repeating this process. So we need to compute the *geometric* mean. Thus the analysis based on the average length of the suffix of zeros is correct.

**page 572** Due to renumbering the conjectures during typesetting the numbers in the diagram are wrong. One has to add 3 to obtain the correct numbers. Here is the correct diagram:

\[
\begin{align*}
5 \rightarrow & 4 \iff 4' \rightarrow \NP \neq \coNP \\
& \downarrow \downarrow \\
8 \iff 8' & \rightarrow 7 \iff 7' \iff 7'' \rightarrow \P \neq \NP & \leftarrow 6 \iff 6''
\end{align*}
\]