

CST Part IB/II(G)/Diploma *Computation Theory*
List of corrections to the 2009/10 lecture notes

10 February 2010

- Page 46:** The definition of $\lceil R_i^+ \rightarrow L_j^- \rceil$ should be $\langle 2i, j \rangle$ (not $\langle i, j \rangle$).
- Page 54:** The first postcondition should be $X = 0$ (not $X = x$).
- Page 57:** The double-headed arrow out of R^- should point to $PC ::= N$ (not PC^-).
- Page 77:** Replace “ $u = a'u''$ is non-empty” by “ $u = a''u''$ is non-empty”.
- Page 98:** Replace “ y_1, \dots, y_m ” by “ y_1, \dots, y_n ”. Replace “ $f(y_1, \dots, y_m)$ ” by “ $f(y_1, \dots, y_n)$ ”.
Replace “ $i = 1..m$ ” by “ $i = 1..n$ ”.
- Page 100:** Replace “ $(R_1, \dots, R_N) ::= (0, \dots, 0)$ ” by “ $(R_0, \dots, R_N) ::= (0, \dots, 0)$ ” (three occurrences).
- Page 103:** Replace “ $f_0(x)$ ” by “ $f_1(x)$ ”.
- Page 108:** Replace “and thus *add* =” by “and thus *mult* =”.
- Page 112:** Replace “ $(R_0, R_{n+2}, \dots, R_N) ::= (0, 0, \dots, 0)$ ” by “ $(R_0, R_{n+3}, \dots, R_N) ::= (0, 0, \dots, 0)$ ”.
- Page 115:** Replace “ $\mu^2 f$ ” by “ $\mu^2 f(x_1, x_2)$ ”.
- Page 128:** Replace “ $FV(M) \cup \{x\}$ ” by “ $BV(M) \cup \{x\}$ ”.
- Page 131:** Replace “because $(\lambda u x'.u)x' =_\alpha (\lambda x'.u)x'$ ” by “because $\lambda z x'.z =_\alpha \lambda x x'.x$ and $x' =_\alpha x'$ ”.
- Page 147:** Replace “ M^1 ” by “ $M^1 N$ ”.
- Page 154:** Replace “ x ” by “ x_1 ” (four occurrences).
- Page 162:** Replace “So we can get $f^{n+1}(x)$ from $f^n(x)$ ” by “So we can get $f^n(x)$ from $f^{n+1}(x)$ ”.
- Page 165:** Replace “ $\lambda \vec{x}x.$ ” by “ $\lambda z \vec{x}x.$ ”.
- Page 169:** Replace “that for total” by “than for total”.