

## Errata for Online Computation and Competitive Analysis

pp. 240 line 10

$C_{\log D}$  should be replaced by  $C_{\log D+1}$  because we later assume that we have  $2^{i-1}$  calls in level  $i$ . In the last level we have  $N - 1$  calls and the described change in index gives us  $2^{\log D+1-1} = D = N - 1$ .

This correction means that the probability measure defined in line 13 is not a probability measure anymore, because the sum of the probabilities of all outcomes is different from 1. This can be fixed by changing the probability to

$$\frac{2^{-i}}{1 - \frac{1}{2 \cdot D}}$$

Finally in line 17 the upper bound of the summation are to be changed to  $\log D + 1$ . The evaluation of the summation in line 18 can then be changed to

$$> \frac{1}{2} \log D + \frac{1}{2}$$

which is  $> \frac{1}{2} \log N$  for  $N > 2$ . This means the errata result in a tighter bound of  $\left\lfloor \frac{\log(N-1)}{2} \right\rfloor + \frac{1}{2}$