Errata - A Modern Introduction to Mathematical Analysis, by Alessandro Fonda

Page 176, lines -6 on.
Replace
Let $N=\max \left\{1 \leq j \leq m: x_{j} \in E\right\}$. Since $\left[a_{j-1}, a_{j}\right] \subseteq\left[x_{j}-\delta\left(x_{j}\right), x_{j}+\delta\left(x_{j}\right)\right]$, we have that $a_{j}-a_{j-1} \leq 2 \delta\left(x_{j}\right)$, and if $x_{j}$ is in $E$ it must be that $x_{j}=e_{n}$ for some $n \in \mathbb{N}$.
by
Since $\left[a_{j-1}, a_{j}\right] \subseteq\left[x_{j}-\delta\left(x_{j}\right), x_{j}+\delta\left(x_{j}\right)\right]$, we have that $a_{j}-a_{j-1} \leq 2 \delta\left(x_{j}\right)$, and if $x_{j}$ is in $E$ it must be that $x_{j}=e_{n}$ for some $n \in \mathbb{N}$. Let $N$ be the maximum of those indices $n$.

