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Version 2, June 1991

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*
* Similar to dejitter, this is a smoothing filter to remove low-level noise.
* See https://en.wikipedia.org/wiki/Infinite_impulse_response for some theory.
* There is a trade-off between noise removal (smoothing) and responsiveness:
* The parameters N and D specify the level of smoothing in the form of a
* fraction (N/D).
*
* The discrete formula we use is found at http://dlbeer.co.nz/articles/tsf.html
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(5)Redblack

Redblack balanced tree algorithm
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