1.
$$m(x) = \frac{1}{N} \sum_{i=1}^{N} k_i$$
 $k = a + b \times k$
 $m(x) = \frac{1}{N} \sum_{i=1}^{N} k_i + \frac{1}{N} \sum_{i=1}^{N} k_i$
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 $m(x) = \frac{1}{N} \sum_{i=1}^{N} k_i + \frac{1}{N} \sum$