```
 \begin{split} & \text{DX}[n_-, k_-, s_-] := \text{Sum}[ \\ & \text{Sum}[\text{Binomial}[k, k - j] \, \text{DX}[\text{Floor}[n / m^* j], k - j, m + 1], \{j, 1, k\} \,], \{m, s, \text{Floor}[n^* (1 / k)]\}] \\ & \text{DX}[n_-, 0, s_-] := \\ & 1 \\ & \text{DX}[n, 1, s] \\ & 1 - s + \text{Floor}[n] \\ \\ & \text{DX}[n, 2, s] \\ & \text{Floor}[\sqrt{n}] \\ & \sum_{m = s} \left(1 + 2 \left(-m + \text{Floor}\left[\frac{n}{m}\right]\right)\right) \\ & \text{DY}[n_-, s_-] := \sum_{m = s} \left(1 + 2 \left(-m\right)\right) \\ & \text{FullSimplify}[\text{Expand}[\text{DY}[n, s]]] \\ & (-1 + s)^2 - \text{Floor}[\sqrt{n}]^2 \\ & \text{DX}[n_-, 1, s_-] := 1 - s + \text{Floor}[n] \\ \\ & \text{DX}[n_-, 2, s_-] := (-1 + s)^2 - \text{Floor}\left[\sqrt{n}\right]^2 + \sum_{m = s} \text{Floor}\left[\frac{n}{m}\right] \\ \end{split}
```