

Project Euler 546 - The Floor's Revenge

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1 Observations

Note that $f_k(n)$ is exactly equal to the number of k -ary partitions of n . Looking at OEIS / empirical data, we find that

$$f_k(n) = f_k(n-1) + f_k\left(\left\lfloor \frac{n}{k} \right\rfloor\right)$$