

```

Clear[g]
e2[n_, k_] := e2[n, k] = Sum[e2[j, k - 1] e2[n / j, 1], {j, Divisors[n]}];
e2[n_, 1] := (-1)^(n + 1); e2[1, 1] := 0; e2[n_, 0] := 0; e2[1, 0] := 1
E2[n_, k_] := E2[n, k] = Sum[e2[j, k], {j, 2, n}]
g[n_, k_, a_] := Sum[ ((-1)^(m + 1))^(k - j) Binomial[k, j] g[Floor[n / m^(k - j)], j, m + 1],
    {m, a, n^(1 / k)}, {j, 0, k - 1}];
g[n_, 1, a_] := (1 / 2) ((-1)^(n + 1) + (-1)^(a + 1))
g[n_, 0, a_] := 1
LAdd[n_] := Sum[ 2^k / k, {k, 1, Log[2, n]}]
LinE[n_] := LAdd[n] + Sum[ (-1)^(k + 1) / k g[n, k, 2], {k, 1, Log[2, n]}]

ES2[n_, a_] := Sum[ (-1)^(j + Floor[n / j]), {j, a, Floor[n^(1 / 2)]}]

ES2[1450, 2]
7
E2[1450, 2]

7
E2[1000, 3]
-19
g[1000, 3, 2]
-19
g2[n_, k_, a_] := Sum[ ((-1)^(m + 1))^(k - j) Binomial[k, j] g[Floor[n / m^(k - j)], j, m + 1],
    {m, a, n^(1 / k)}, {j, 0, k - 1}];
g2[1000, 3, 2]
-19
g3[n_, a_] := Sum[ ((-1)^(m + 1))^(3 - j) Binomial[3, j] g[Floor[n / m^(3 - j)], j, m + 1],
    {m, a, n^(1 / 3)}, {j, 0, 3 - 1}];
g3[1000, 2]
-19
g4[n_, a_] := Sum[
    ((-1)^(m + 1))^(3 - 0) Binomial[3, 0] g[Floor[n / m^(3 - 0)], 0, m + 1] +
    ((-1)^(m + 1))^(3 - 1) Binomial[3, 1] g[Floor[n / m^(3 - 1)], 1, m + 1] +
    ((-1)^(m + 1))^(3 - 2) Binomial[3, 2] g[Floor[n / m^(3 - 2)], 2, m + 1]
    , {m, a, n^(1 / 3)}]
g4[1000, 2]
-19

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g5[n_, a_] := Sum[

  ((-1)^(m+1))^3 g[Floor[n/m^3], 0, m+1] +
  ((-1)^(m+1))^2 3 g[Floor[n/m^2], 1, m+1] +
  ((-1)^(m+1))^3 g[Floor[n/m^1], 2, m+1]

  , {m, a, n^(1/3)}]
g5[1000, 2]
-19

g6[n_, a_] := Sum[

  ((-1)^(m+1))^3 +
  ((-1)^(m+1))^2 3 g[Floor[n/m^2], 1, m+1] +
  ((-1)^(m+1))^3 g[Floor[n/m^1], 2, m+1]

  , {m, a, n^(1/3)}]
g6[1000, 2]
-19

g[Floor[n/m^2], 1, m+1]

$$\frac{1}{2} \left( (-1)^{2+m} + (-1)^{1+\text{Floor}\left[\frac{n}{m^2}\right]} \right)$$

(1/2) ((-1)^(2+m) + (-1)^(1+Floor[n/m^2]))

g7[n_, a_] := Sum[

  ((-1)^(m+1))^3 + ((-1)^(m+1))^2 3 ((1/2) ((-1)^(2+m) + (-1)^(1+Floor[n/m^2]))) +
  ((-1)^(m+1))^3 g[Floor[n/m^1], 2, m+1]

  , {m, a, n^(1/3)}]
g7[1000, 2]
-19

Expand[
  ((-1)^(m+1))^3 + ((-1)^(m+1))^2 3 ((1/2) ((-1)^(2+m) + (-1)^(1+Floor[n/m^2]))) ]

$$(-1)^{3+3m} + \frac{3}{2} (-1)^{4+3m} + \frac{3}{2} (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}$$


g8[n_, a_] := Sum[

  
$$(-1)^{3+3m} + \frac{3}{2} (-1)^{4+3m} + \frac{3}{2} (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]} +$$

  ((-1)^(m+1))^3 g[Floor[n/m^1], 2, m+1]

  , {m, a, n^(1/3)}]
g8[1000, 2]
-19

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g9[n\_, a\_] :=

$$\text{Sum}\left[(-1)^{3+3m}, \{m, a, n^{(1/3)}\}\right] +$$

$$\text{Sum}\left[\frac{3}{2}(-1)^{4+3m}, \{m, a, n^{(1/3)}\}\right] +$$

$$\text{Sum}\left[\frac{3}{2}(-1)^{3+2m+\text{Floor}\left[\frac{n}{n^2}\right]}, \{m, a, n^{(1/3)}\}\right] +$$

$$\text{Sum}\left[((-1)^{(m+1)})^3 g[\text{Floor}[n/m^1], 2, m+1], \{m, a, n^{(1/3)}\}\right]$$

g9[1000, 2]

-19

g10[n\_, a\_] :=

$$-\frac{1}{2}(-1)^{3a} - \frac{1}{2}(-1)^{3n^{1/3}} +$$

$$\text{Sum}\left[\frac{3}{2}(-1)^{4+3m}, \{m, a, n^{(1/3)}\}\right] +$$

$$\text{Sum}\left[\frac{3}{2}(-1)^{3+2m+\text{Floor}\left[\frac{n}{n^2}\right]}, \{m, a, n^{(1/3)}\}\right] +$$

$$\text{Sum}\left[((-1)^{(m+1)})^3 g[\text{Floor}[n/m^1], 2, m+1], \{m, a, n^{(1/3)}\}\right]$$

$$\text{Sum}\left[(-1)^{3+3m}, \{m, a, n^{(1/3)}\}\right]$$

$$\text{Expand}\left[\frac{1}{2}\left(-(-1)^{3a} - (-1)^{3n^{1/3}}\right)\right]$$

g10[1000, 2]

-19

**g11**[n\_, a\_] :=

$$-\frac{1}{2} (-1)^{3a} - \frac{1}{2} (-1)^{3n^{1/3}} +$$

$$\frac{3}{4} (-1)^{3a} + \frac{3}{4} (-1)^{3n^{1/3}} +$$

$$\text{Sum}\left[\frac{3}{2} (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\}\right] +$$

$$\text{Sum}[((-1)^{(m+1)})^3 g[\text{Floor}[n/m^2], 2, m+1], \{m, a, n^{(1/3)}\}]$$

$$\text{Sum}\left[\frac{3}{2} (-1)^{4+3m}, \{m, a, n^{(1/3)}\}\right]$$

$$\text{Expand}\left[\frac{3}{4} \left((-1)^{3a} + (-1)^{3n^{1/3}}\right)\right]$$

$$\frac{3}{4} (-1)^{3a} + \frac{3}{4} (-1)^{3n^{1/3}}$$

**g11**[1000, 2]

-19

**g12**[n\_, a\_] :=

$$-\frac{1}{2} (-1)^{3a} - \frac{1}{2} (-1)^{3n^{1/3}} +$$

$$\frac{3}{4} (-1)^{3a} + \frac{3}{4} (-1)^{3n^{1/3}} +$$

$$\text{Sum}\left[\frac{3}{2} (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\}\right] +$$

$$\text{Sum}[((-1)^{(m+1)})^3 g[\text{Floor}[n/m^2], 2, m+1], \{m, a, n^{(1/3)}\}]$$

$$\text{Sum}\left[\frac{3}{2} (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\}\right]$$

$$\sum_{m=a}^{n^{1/3}} \frac{3}{2} (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}$$

**g12**[1000, 2]

-19

**g13[n\_, a\_] :=**

$$-\frac{1}{2} (-1)^{3a} - \frac{1}{2} (-1)^{3n^{1/3}} +$$

$$\frac{3}{4} (-1)^{3a} + \frac{3}{4} (-1)^{3n^{1/3}} +$$

$$\text{Sum}\left[\frac{3}{2} (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\}\right] +$$

$$3 \text{ Sum}\left[((-1)^{(m+1)}) g[\text{Floor}[n/m], 2, m+1], \{m, a, n^{(1/3)}\}\right]$$

**g13[1000, 2]**

-19

**g14[n\_, a\_] :=**

$$-\frac{1}{2} (-1)^{3a} - \frac{1}{2} (-1)^{3n^{1/3}} +$$

$$\frac{3}{4} (-1)^{3a} + \frac{3}{4} (-1)^{3n^{1/3}} +$$

$$\text{Sum}\left[\frac{3}{2} (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\}\right] +$$

$$3 \text{ Sum}\left[((-1)^{(m+1)}) \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} (-1)^{j+\text{Floor}\left[\frac{\text{Floor}\left[\frac{n}{m}\right]}{j}\right]}, \{m, a, n^{(1/3)}\}\right]$$

**ES2[Floor[n/m], m+1]**

$$\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right] \sum_{j=1+m} (-1)^{j+\text{Floor}\left[\frac{\text{Floor}\left[\frac{n}{m}\right]}{j}\right]}$$

**g14[1000, 2]**

-19

**g15**[n\_, a\_] :=

$$-\frac{1}{2} (-1)^{3a} - \frac{1}{2} (-1)^{3n^{1/3}} +$$

$$\frac{3}{4} (-1)^{3a} + \frac{3}{4} (-1)^{3n^{1/3}} +$$

$$\frac{3}{2} \text{Sum}\left[(-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\}\right] +$$

$$3 \text{Sum}\left[\left((-1)^{(m+1)}\right)^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} (-1)^{j+\text{Floor}\left[\frac{\text{Floor}\left[\frac{n}{m}\right]}{j}\right]}, \{m, a, n^{(1/3)}\}\right]$$

**g15**[1000, 2]

-19

**g16**[n\_, a\_] :=

$$\frac{1}{4} \left( (-1)^{3a} + (-1)^{3n^{1/3}} \right) +$$

$$\frac{3}{2} \text{Sum}\left[(-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\}\right] +$$

$$3 \text{Sum}\left[\left((-1)^{(m+1)}\right)^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} (-1)^{j+\text{Floor}\left[\frac{\text{Floor}\left[\frac{n}{m}\right]}{j}\right]}, \{m, a, n^{(1/3)}\}\right]$$

**FullSimplify****[****Expand****[-** $\frac{1}{2} (-1)^{3a} - \frac{1}{2} (-1)^{3n^{1/3}} +$

$$\frac{3}{4} (-1)^{3a} + \frac{3}{4} (-1)^{3n^{1/3}} \bigr]\bigr]$$

$$\frac{1}{4} \left( (-1)^{3a} + (-1)^{3n^{1/3}} \right)$$

**g16**[1000, 2]

-19

g17[n\_, a\_] :=

$$\frac{1}{4} \left( (-1)^{3a} + (-1)^{3 \text{Floor}[n^{1/3}]} \right) +$$

$$\frac{3}{2} \text{Sum} \left[ (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\} \right] +$$

$$3 \text{Sum} \left[ ((-1)^{(m+1)}) \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} (-1)^{j+\text{Floor}\left[\frac{\text{Floor}\left[\frac{n}{m}\right]}{j}\right]}, \{m, a, n^{(1/3)}\} \right]$$

$$\text{pp}[n_, a_] := \frac{1}{4} \left( (-1)^{3a} + (-1)^{3 \text{Floor}[n^{1/3}]} \right)$$

$$\text{pp2}[n_, a_] := \frac{3}{2} \text{Sum} \left[ (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\} \right]$$

$$\text{pp3}[n_, a_] := 3 \text{Sum} \left[ ((-1)^{(m+1)}) \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} (-1)^{j+\text{Floor}\left[\frac{\text{Floor}\left[\frac{n}{m}\right]}{j}\right]}, \{m, a, n^{(1/3)}\} \right]$$

$$\text{pp3a}[n_, a_] := 3 \text{Sum} \left[ \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} (-1)^{m+1+j+\text{Floor}[n/(mj)]}, \{m, a, \text{Floor}[n^{(1/3)}]\} \right]$$

pp3b[n\_, a\_] :=

$$3 \text{Sum} \left[ (-1)^{m+1+j+\text{Floor}[n/(mj)]}, \{m, a, \text{Floor}[n^{(1/3)}]\}, \{j, m+1, \text{Floor}[\text{Floor}[n/m]^{(1/2)}]\} \right]$$

Table[{n, pp3[n, 2], pp3a[n, 2], pp3b[n, 2]}, {n, 1000, 1030}] // TableForm

1000	-15	-15	-15
1001	-9	-9	-9
1002	-15	-15	-15
1003	-15	-15	-15
1004	-15	-15	-15
1005	-9	-9	-9
1006	-9	-9	-9
1007	-9	-9	-9
1008	30	30	30
1009	30	30	30
1010	24	24	24
1011	24	24	24
1012	30	30	30
1013	30	30	30
1014	9	9	9
1015	15	15	15
1016	21	21	21
1017	21	21	21
1018	21	21	21
1019	21	21	21
1020	39	39	39
1021	39	39	39
1022	33	33	33
1023	39	39	39
1024	12	12	12
1025	12	12	12
1026	-30	-30	-30
1027	-30	-30	-30
1028	-30	-30	-30
1029	-24	-24	-24
1030	-30	-30	-30

`g18[n_, a_] :=`

$$\frac{1}{4} \left( (-1)^{3a} + (-1)^{3 \text{Floor}[n^{1/3}]} \right) +$$

$$\frac{3}{2} \text{Sum} \left[ (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{(1/3)}\} \right] +$$

$$3 \text{Sum} \left[ (-1)^{m+1+j+\text{Floor}[n/(m j)]}, \{m, a, \text{Floor}[n^{(1/3)}]\}, \{j, m+1, \text{Floor}[\text{Floor}[n/m]^{(1/2)}]\} \right]$$

`g18[1000, 2]`

-19

$$\frac{3}{2} \text{Sum} \left[ (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, 2, n^{(1/3)}\} \right]$$

$$-\sum_{m=2}^{n^{1/3}} (-1)^{3+2m+\text{Floor}\left[\frac{n}{m^2}\right]}$$



$$3 \text{ Sum} \left[ (-1)^{m+1+j+\text{Floor}[n/(m j)]}, \{m, 2, \text{Floor}[n^{1/3}]\}, \{j, m+1, \text{Floor}[\text{Floor}[n/m]^{1/2}]\} \right]$$

$$3 \sum_{m=2}^{\text{Floor}[n^{1/3}]} \sum_{j=1+m}^{\text{Floor}[\sqrt{\text{Floor}[\frac{n}{m}]}]} (-1)^{1+j+m+\text{Floor}[\frac{n}{jm}]}$$

$$\text{ps1}[n_, a_] := \frac{3}{2} \text{ Sum} \left[ (-1)^{3+2m+\text{Floor}[\frac{n}{m^2}]}, \{m, a, n^{1/3}\} \right]$$

$$\text{ps2}[n_, a_] := \frac{3}{2} \text{ Sum} \left[ (-1)^{1+\text{Floor}[\frac{n}{m^2}]}, \{m, a, n^{1/3}\} \right]$$

$$\text{ps1}[103300, 2]$$

$$\frac{33}{2}$$

$$\text{ps2}[103300, 2]$$

$$\frac{33}{2}$$

$$\text{g19}[n_, a_] :=$$

$$\frac{1}{4} \left( (-1)^{3a} + (-1)^{3\text{Floor}[n^{1/3}]} \right) +$$

$$\frac{3}{2} \text{ Sum} \left[ (-1)^{1+\text{Floor}[\frac{n}{m^2}]}, \{m, a, n^{1/3}\} \right] +$$

$$3 \text{ Sum} \left[ (-1)^{m+1+j+\text{Floor}[n/(m j)]}, \{m, a, \text{Floor}[n^{1/3}]\}, \{j, m+1, \text{Floor}[\text{Floor}[n/m]^{1/2}]\} \right]$$

$$3 \text{ Sum} \left[ (-1)^{m+1+j+\text{Floor}[n/(m j)]}, \{j, m+1, \text{Floor}[\text{Floor}[n/m]^{1/2}]\} \right]$$

$$\text{PP}[n_, m_] := 3 \sum_{j=1+m}^{\text{Floor}[\sqrt{\text{Floor}[\frac{n}{m}]}]} (-1)^{1+j+m+\text{Floor}[\frac{n}{jm}]} /. m \rightarrow 2$$

$$\text{PP}[100, 2]$$

$$-3$$

$$\text{PP}[100, 3]$$

$$0$$

```
Table[{n, PP[n, 2]}, {n, 2, 40}] // TableForm
```

2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	-3
19	-3
20	-3
21	-3
22	-3
23	-3
24	3
25	3
26	3
27	3
28	3
29	3
30	-3
31	-3
32	-6
33	-6
34	-6
35	-6
36	0
37	0
38	0
39	0
40	6

g20[n\_, a\_] :=

$$\frac{1}{4} \left( (-1)^{3a} + (-1)^{3 \text{Floor}[n^{1/3}]} \right) +$$

$$\frac{3}{2} \text{Sum} \left[ (-1)^{1+\text{Floor}\left[\frac{n}{m^2}\right]}, \{m, a, n^{1/3}\} \right] +$$

$$3 \text{Sum} \left[ (-1)^{m+1+j+\text{Floor}[n/(mj)]}, \{m, a, \text{Floor}[n^{1/3}]\}, \{j, m+1, \text{Floor}[\text{Floor}[n/m]^{1/2}]\} \right]$$

g20[1000, 2]

-19

$$\text{Expand} \left[ \frac{1}{4} \left( 1 + (-1)^{3 \text{Floor}[n^{1/3}]} \right) + \frac{3}{2} \sum_{m=2}^{n^{1/3}} (-1)^{1+\text{Floor}\left[\frac{n}{m^2}\right]} + 3 \sum_{m=2}^{\text{Floor}[n^{1/3}]} \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} (-1)^{1+j+m+\text{Floor}\left[\frac{n}{jm}\right]} \right]$$

$$\frac{1}{4} + \frac{1}{4} (-1)^{3 \text{Floor}[n^{1/3}]} + \frac{3}{2} \sum_{m=2}^{n^{1/3}} (-1)^{1+\text{Floor}\left[\frac{n}{m^2}\right]} + 3 \sum_{m=2}^{\text{Floor}[n^{1/3}]} \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} (-1)^{1+j+m+\text{Floor}\left[\frac{n}{jm}\right]}$$

$$\text{PD}[n_, a_] := \sum_{m=a}^{\text{Floor}[n^{1/3}]} \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} (-1)^{1+j+m+\text{Floor}\left[\frac{n}{jm}\right]}$$

$$\text{PD2}[n_, a_] := \sum_{m=a}^{\text{Floor}[n^{1/3}]} \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} \text{Mo} \left[ 1 + j + m + \text{Floor} \left[ \frac{n}{jm} \right] \right]$$

$$\text{PD2a}[n_, a_] := \sum_{m=a}^{\text{Floor}[n^{1/3}]} \sum_{j=1+m}^{\text{Floor}\left[\sqrt{\text{Floor}\left[\frac{n}{m}\right]}\right]} \text{Mo}[m, j]$$

PD2[1000, 2]

$$5 \text{Mo}[31] + 3 \text{Mo}[32] + 3 \text{Mo}[33] + 4 \text{Mo}[34] + 2 \text{Mo}[35] + 3 \text{Mo}[36] + 4 \text{Mo}[37] + \text{Mo}[38] + \text{Mo}[39] + \\ 4 \text{Mo}[40] + 4 \text{Mo}[41] + \text{Mo}[42] + \text{Mo}[43] + \text{Mo}[44] + 2 \text{Mo}[45] + 4 \text{Mo}[47] + 3 \text{Mo}[48] + \text{Mo}[49] + \\ 2 \text{Mo}[50] + \text{Mo}[51] + 2 \text{Mo}[52] + \text{Mo}[53] + \text{Mo}[54] + \text{Mo}[56] + \text{Mo}[58] + \text{Mo}[59] + \text{Mo}[60] + \text{Mo}[63] + \\ \text{Mo}[65] + \text{Mo}[67] + \text{Mo}[73] + \text{Mo}[75] + \text{Mo}[81] + \text{Mo}[91] + \text{Mo}[92] + \text{Mo}[108] + \text{Mo}[132] + \text{Mo}[172]$$

**PD2[10 000, 2]**

3 Mo[65] + 9 Mo[66] + 12 Mo[67] + 8 Mo[68] + 7 Mo[69] + 9 Mo[70] + 6 Mo[71] + 10 Mo[72] + 5 Mo[73] +  
 8 Mo[74] + 5 Mo[75] + 7 Mo[76] + 7 Mo[77] + 5 Mo[78] + 6 Mo[79] + 6 Mo[80] + 5 Mo[81] + 5 Mo[82] +  
 6 Mo[83] + 6 Mo[84] + 4 Mo[85] + 4 Mo[86] + 5 Mo[87] + 4 Mo[88] + 6 Mo[89] + 5 Mo[90] + 4 Mo[91] +  
 3 Mo[92] + 3 Mo[93] + 3 Mo[94] + 6 Mo[95] + 5 Mo[96] + 4 Mo[97] + 3 Mo[98] + 5 Mo[99] +  
 3 Mo[100] + Mo[101] + 3 Mo[102] + 3 Mo[103] + Mo[104] + 9 Mo[105] + 4 Mo[106] + 4 Mo[107] +  
 4 Mo[108] + 2 Mo[109] + 2 Mo[110] + 2 Mo[111] + 3 Mo[112] + 4 Mo[113] + Mo[114] + 2 Mo[115] +  
 Mo[116] + Mo[117] + 4 Mo[118] + 5 Mo[119] + 4 Mo[120] + 3 Mo[121] + 5 Mo[122] + 2 Mo[123] +  
 3 Mo[124] + 2 Mo[125] + 2 Mo[126] + 3 Mo[127] + Mo[128] + Mo[129] + 3 Mo[130] + 2 Mo[131] +  
 Mo[132] + 3 Mo[133] + Mo[134] + Mo[135] + 2 Mo[136] + Mo[138] + Mo[139] + 4 Mo[140] +  
 Mo[142] + 7 Mo[144] + 6 Mo[145] + 2 Mo[146] + 4 Mo[147] + 4 Mo[148] + Mo[149] + 2 Mo[150] +  
 2 Mo[151] + Mo[152] + Mo[153] + 3 Mo[154] + 2 Mo[155] + 2 Mo[156] + 2 Mo[157] + Mo[158] +  
 Mo[159] + 2 Mo[160] + Mo[161] + 3 Mo[162] + Mo[164] + Mo[165] + Mo[166] + Mo[168] + 2 Mo[169] +  
 Mo[170] + Mo[171] + 2 Mo[172] + 2 Mo[175] + 3 Mo[177] + Mo[180] + 2 Mo[183] + 2 Mo[184] +  
 Mo[186] + Mo[187] + Mo[190] + Mo[191] + Mo[194] + Mo[195] + Mo[197] + 2 Mo[198] + Mo[199] +  
 Mo[201] + Mo[204] + Mo[207] + Mo[209] + Mo[210] + Mo[215] + Mo[216] + Mo[217] + Mo[221] +  
 Mo[223] + Mo[225] + 2 Mo[228] + Mo[235] + Mo[237] + Mo[241] + 2 Mo[243] + 2 Mo[252] + Mo[256] +  
 Mo[262] + Mo[264] + Mo[265] + 2 Mo[273] + Mo[285] + Mo[291] + Mo[293] + 2 Mo[298] + Mo[314] +  
 Mo[318] + Mo[325] + Mo[331] + Mo[345] + Mo[347] + Mo[351] + Mo[369] + Mo[374] + Mo[383] +  
 Mo[400] + Mo[427] + Mo[428] + Mo[431] + Mo[468] + Mo[487] + Mo[510] + Mo[513] + Mo[565] +  
 Mo[567] + Mo[636] + Mo[675] + Mo[724] + Mo[841] + Mo[842] + Mo[1008] + Mo[1257] + Mo[1672]

**Table[{n, Floor[10 000 / (2 n)]}, {n, 2, 70}] // TableForm**

2	2500
3	1666
4	1250
5	1000
6	833
7	714
8	625
9	555
10	500
11	454
12	416
13	384
14	357
15	333
16	312
17	294
18	277
19	263
20	250
21	238
22	227
23	217
24	208
25	200
26	192
27	185
28	178
29	172
30	166
31	161
32	156
33	151

34	147
35	142
36	138
37	135
38	131
39	128
40	125
41	121
42	119
43	116
44	113
45	111
46	108
47	106
48	104
49	102
50	100
51	98
52	96
53	94
54	92
55	90
56	89
57	87
58	86
59	84
60	83
61	81
62	80
63	79
64	78
65	76
66	75
67	74
68	73
69	72
70	71