```
In[76]:= (* Define the function to be integrated *)
     f[x_] := (4x - 3)^3
     (* Define the limits of integration *)
     a = -3;
     b = 5;
     (* Define the number of intervals (n) *)
     n = 4; (* You can change n as needed *)
     (* Trapezoidal Rule *)
     trapezoidalRule[f_, a_, b_, n_] := Module[{h, xi, sum},
      h = (b - a) / n;
      sum = f[a] + f[b];
      Print["Sum of f(a) + f(b) for Trapezoidal Rule: ", sum];
      For [i = 1, i < n, i++,
       xi = a + i * h;
       sum = sum + 2 f[xi];
       Print["xi for Trapezoidal Rule (Interval ", i, "): ", xi];
       Print["Sum for Trapezoidal Rule (Interval ", i, "): ", sum];
      ];
      (h/2) * sum
     (* Simpson's 1/3 Rule *)
     simpsonsOneThirdRule[f_, a_, b_, n_] := Module[\{h, xi, sum1, sum2\},
      h = (b - a) / n;
      sum1 = f[a] + f[b];
      sum2 = 0;
      Print["Sum of f(a) + f(b) for Simpson's 1/3 Rule: ", sum1];
      For [i = 1, i < n, i++,
       xi = a + i * h;
       If[Mod[i, 2] == 0, sum2 = sum2 + 2 f[xi], sum1 = sum1 + 4 f[xi]];
       Print["xi for Simpson's 1/3 Rule (Interval ", i, "): ", xi];
       Print["Sum for Simpson's 1/3 Rule (Interval ", i, "): ", (h/3) * (sum1 + sum2)];
      (h/3) * (sum1 + sum2)
```

```
(* Calculate the results for the specified number of intervals *)
resultTrapezoidal = trapezoidalRule[f, a, b, n];
resultSimpsons = simpsonsOneThirdRule[f, a, b, n];
(* Print the final results *)
Print["Trapezoidal Rule Result: ", resultTrapezoidal];
Print["Simpson's 1/3 Rule Result: ", resultSimpsons];
Sum of f(a) + f(b) for Trapezoidal Rule: 1538
xi for Trapezoidal Rule (Interval 1): -1
Sum for Trapezoidal Rule (Interval 1): 852
xi for Trapezoidal Rule (Interval 2): 1
Sum for Trapezoidal Rule (Interval 2): 854
xi for Trapezoidal Rule (Interval 3): 3
Sum for Trapezoidal Rule (Interval 3): 2312
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): -1
Sum for Simpson's 1/3 Rule (Interval 1): \frac{1}{3}
xi for Simpson's 1/3 Rule (Interval 2): 1
Sum for Simpson's 1/3 Rule (Interval 2): 112
xi for Simpson's 1/3 Rule (Interval 3): 3
Sum for Simpson's 1/3 Rule (Interval 3): 2056
Trapezoidal Rule Result: 2312
Simpson's 1/3 Rule Result: 2056
```

```
In[86]:= (* Define the function to be integrated *)
     f[x_] := (4 x - 3)^3
    (* Define the limits of integration *)
     a = -3;
     b = 5;
    (∗ Create a function to compute the percent relative error ∗)
     percentRelativeError[exact_, approximate_] := Abs[(exact - approximate) / exact] * 100
    (* Loop through different values of n and compute the results and errors *)
     resultsTrapezoidal = Table
     resultTrapezoidal = trapezoidalRule[f, a, b, n];
     resultSimpsons = simpsonsOneThirdRule[f, a, b, n];
     exactResult = Integrate[f[x], {x, a, b}];
     errorTrapezoidal = percentRelativeError[exactResult, resultTrapezoidal];
     errorSimpsons = percentRelativeError[exactResult, resultSimpsons];
     {n, resultTrapezoidal, errorTrapezoidal, resultSimpsons, errorSimpsons},
     {i, 2, 100}
    (* Create a table with the results and errors *)
     resultTable =
     Prepend[resultsTrapezoidal, {"n", "Trapezoidal Result",
         "Trapezoidal Error", "Simpsons Result", "Simpsons Error"}];
    (* Display the result table *)
    Grid[resultTable, Frame → All]
    (∗ Plot the percent relative errors for both methods ∗)
     PlotLegends → {"Trapezoidal Error", "Simpsons Error"},
     FrameLabel → {"Number of Intervals (n)", "Percent Relative Error (%)"},
     PlotRange → All
     Sum of f(a) + f(b) for Trapezoidal Rule: 1538
     xi for Trapezoidal Rule (Interval 1): 1
```

```
Sum for Trapezoidal Rule (Interval 1): 1540
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): 1
Sum for Simpson's 1/3 Rule (Interval 1): 2056
Sum of f(a) + f(b) for Trapezoidal Rule: 1538
xi for Trapezoidal Rule (Interval 1): -- 3
Sum for Trapezoidal Rule (Interval 1): \frac{37132}{27}
xi for Trapezoidal Rule (Interval 2): - 3
Sum for Trapezoidal Rule (Interval 2): \frac{5650}{3}
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): -\frac{1}{2}
Sum for Simpson's 1/3 Rule (Interval 1): \frac{261904}{243}
xi for Simpson's 1/3 Rule (Interval 2): \frac{7}{3}
Sum for Simpson's 1/3 Rule (Interval 2): \frac{371648}{243}
Sum of f(a) + f(b) for Trapezoidal Rule: 1538
xi for Trapezoidal Rule (Interval 1): -1
Sum for Trapezoidal Rule (Interval 1): 852
xi for Trapezoidal Rule (Interval 2): 1
Sum for Trapezoidal Rule (Interval 2): 854
xi for Trapezoidal Rule (Interval 3): 3
Sum for Trapezoidal Rule (Interval 3): 2312
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): -1
Sum for Simpson's 1/3 Rule (Interval 1): \frac{332}{3}
xi for Simpson's 1/3 Rule (Interval 2): 1
Sum for Simpson's 1/3 Rule (Interval 2): 112
xi for Simpson's 1/3 Rule (Interval 3): 3
Sum for Simpson's 1/3 Rule (Interval 3): 2056
Sum of f(a) + f(b) for Trapezoidal Rule: 1538
```

```
xi for Trapezoidal Rule (Interval 1): -\frac{7}{5}
Sum for Trapezoidal Rule (Interval 1): \frac{33236}{125}
xi for Trapezoidal Rule (Interval 2): - 5
Sum for Trapezoidal Rule (Interval 2): \frac{30574}{125}
9 xi for Trapezoidal Rule (Interval 3): -
Sum for Trapezoidal Rule (Interval 3): \frac{49096}{125}
xi for Trapezoidal Rule (Interval 4): \frac{17}{5}
Sum for Trapezoidal Rule (Interval 4): \frac{13\,874}{5}
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): -\frac{7}{5}
Sum for Simpson's 1/3 Rule (Interval 1): -\frac{335408}{625}
xi for Simpson's 1/3 Rule (Interval 2): \frac{1}{5}
Sum for Simpson's 1/3 Rule (Interval 2): -\frac{205504}{375}
xi for Simpson's 1/3 Rule (Interval 3):
Sum for Simpson's 1/3 Rule (Interval 3): -\frac{731168}{1975}
xi for Simpson's 1/3 Rule (Interval 4): \frac{17}{5}
Sum for Simpson's 1/3 Rule (Interval 4): \frac{550288}{625}
Sum of f(a) + f(b) for Trapezoidal Rule: 1538
xi for Trapezoidal Rule (Interval 1): -
Sum for Trapezoidal Rule (Interval 1): -\frac{7252}{27}
xi for Trapezoidal Rule (Interval 2): --
Sum for Trapezoidal Rule (Interval 2): -\frac{1294}{3}
```

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xi for Trapezoidal Rule (Interval 3): 1
Sum for Trapezoidal Rule (Interval 3): -\frac{1288}{3}
xi for Trapezoidal Rule (Interval 4): \frac{7}{2}
Sum for Trapezoidal Rule (Interval 4): \frac{2126}{27}
xi for Trapezoidal Rule (Interval 5): \frac{11}{3}
Sum for Trapezoidal Rule (Interval 5): \frac{9764}{2}
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): --
Sum for Simpson's 1/3 Rule (Interval 1): -\frac{224120}{243}
xi for Simpson's 1/3 Rule (Interval 2): -\frac{1}{3}
Sum for Simpson's 1/3 Rule (Interval 2): -\frac{241696}{243}
xi for Simpson's 1/3 Rule (Interval 3): 1
Sum for Simpson's 1/3 Rule (Interval 3): -\frac{241264}{243}
xi for Simpson's 1/3 Rule (Interval 4): \frac{7}{2}
Sum for Simpson's 1/3 Rule (Interval 4): -\frac{186392}{243}
xi for Simpson's 1/3 Rule (Interval 5): \frac{11}{3}
Sum for Simpson's 1/3 Rule (Interval 5): 2056
Sum of f(a) + f(b) for Trapezoidal Rule: 1538
xi for Trapezoidal Rule (Interval 1): -\frac{13}{7}
Sum for Trapezoidal Rule (Interval 1): -\frac{250500}{343}
xi for Trapezoidal Rule (Interval 2): --
Sum for Trapezoidal Rule (Interval 2): -\frac{388342}{343}
xi for Trapezoidal Rule (Interval 3): -
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```
Sum for Trapezoidal Rule (Interval 3): -\frac{389800}{343}
xi for Trapezoidal Rule (Interval 4): \frac{11}{7}
Sum for Trapezoidal Rule (Interval 4): -\frac{365466}{200}
xi for Trapezoidal Rule (Interval 5): \frac{19}{3}
Sum for Trapezoidal Rule (Interval 5): -\frac{32716}{343}
xi for Trapezoidal Rule (Interval 6): \frac{27}{7}
Sum for Trapezoidal Rule (Interval 6): \frac{26210}{7}
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): -\frac{13}{7}
Sum for Simpson's 1/3 Rule (Interval 1): -\frac{8228272}{7203}
xi for Simpson's 1/3 Rule (Interval 2): -\frac{5}{7}
Sum for Simpson's 1/3 Rule (Interval 2): -\frac{3110336}{2401}
xi for Simpson's 1/3 Rule (Interval 3): \frac{3}{7}
Sum for Simpson's 1/3 Rule (Interval 3): -\frac{3118112}{2401}
xi for Simpson's 1/3 Rule (Interval 4): \frac{11}{7}
Sum for Simpson's 1/3 Rule (Interval 4): -\frac{9159664}{7203}
xi for Simpson's 1/3 Rule (Interval 5): \frac{19}{7}
Sum for Simpson's 1/3 Rule (Interval 5): -\frac{547952}{1029}
xi for Simpson's 1/3 Rule (Interval 6): \frac{27}{7}
Sum for Simpson's 1/3 Rule (Interval 6): \frac{6700384}{7203}
Sum of f(a) + f(b) for Trapezoidal Rule: 1538
xi for Trapezoidal Rule (Interval 1): -2
Sum for Trapezoidal Rule (Interval 1): -1124
```

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xi for Trapezoidal Rule (Interval 2): -1
Sum for Trapezoidal Rule (Interval 2): -1810
xi for Trapezoidal Rule (Interval 3): 0
Sum for Trapezoidal Rule (Interval 3): -1864
xi for Trapezoidal Rule (Interval 4): 1
Sum for Trapezoidal Rule (Interval 4): -1862
xi for Trapezoidal Rule (Interval 5): 2
Sum for Trapezoidal Rule (Interval 5): -1612
xi for Trapezoidal Rule (Interval 6): 3
Sum for Trapezoidal Rule (Interval 6): -154
xi for Trapezoidal Rule (Interval 7): 4
Sum for Trapezoidal Rule (Interval 7): 4240
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): -2
Sum for Simpson's 1/3 Rule (Interval 1): -1262
xi for Simpson's 1/3 Rule (Interval 2): -1
Sum for Simpson's 1/3 Rule (Interval 2): -\frac{4472}{3}
xi for Simpson's 1/3 Rule (Interval 3): 0
Sum for Simpson's 1/3 Rule (Interval 3): -\frac{4580}{3}
xi for Simpson's 1/3 Rule (Interval 4): 1
Sum for Simpson's 1/3 Rule (Interval 4): -1526
xi for Simpson's 1/3 Rule (Interval 5): 2
Sum for Simpson's 1/3 Rule (Interval 5): -\frac{4078}{3}
xi for Simpson's 1/3 Rule (Interval 6): 3
Sum for Simpson's 1/3 Rule (Interval 6): -\frac{2620}{3}
xi for Simpson's 1/3 Rule (Interval 7): 4
Sum for Simpson's 1/3 Rule (Interval 7): 2056
Sum of f(a) + f(b) for Trapezoidal Rule: 1538
xi for Trapezoidal Rule (Interval 1): -\frac{19}{9}
Sum for Trapezoidal Rule (Interval 1): -\frac{1064252}{720}
xi for Trapezoidal Rule (Interval 2): -\frac{11}{9}
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```
Sum for Trapezoidal Rule (Interval 2): -\frac{197786}{81}
xi for Trapezoidal Rule (Interval 3): -
Sum for Trapezoidal Rule (Interval 3): -\frac{210968}{81}
xi for Trapezoidal Rule (Interval 4): \frac{5}{2}
Sum for Trapezoidal Rule (Interval 4): -\frac{1899398}{729}
xi for Trapezoidal Rule (Interval 5): \frac{13}{9}
Sum for Trapezoidal Rule (Interval 5): -\frac{207572}{81}
xi for Trapezoidal Rule (Interval 6):
Sum for Trapezoidal Rule (Interval 6): -\frac{166418}{81}
xi for Trapezoidal Rule (Interval 7): \frac{29}{9}
Sum for Trapezoidal Rule (Interval 7): -\frac{87824}{729}
xi for Trapezoidal Rule (Interval 8): \frac{37}{9}
Sum for Trapezoidal Rule (Interval 8): \frac{42658}{9}
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): -\frac{19}{9}
Sum for Simpson's 1/3 Rule (Interval 1): -\frac{25997648}{19683}
xi for Simpson's 1/3 Rule (Interval 2): -\frac{11}{9}
Sum for Simpson's 1/3 Rule (Interval 2): -\frac{31724224}{19683}
xi for Simpson's 1/3 Rule (Interval 3): -\frac{1}{3}
Sum for Simpson's 1/3 Rule (Interval 3): -\frac{33622432}{19683}
xi for Simpson's 1/3 Rule (Interval 4): \frac{3}{9}
```

Sum for Simpson's 1/3 Rule (Interval 4): 
$$-\frac{33627920}{19683}$$
 xi for Simpson's 1/3 Rule (Interval 5):  $\frac{13}{9}$ 
Sum for Simpson's 1/3 Rule (Interval 5):  $-\frac{1226960}{729}$  xi for Simpson's 1/3 Rule (Interval 6):  $\frac{7}{3}$ 
Sum for Simpson's 1/3 Rule (Interval 6):  $-\frac{1117216}{729}$  xi for Simpson's 1/3 Rule (Interval 7):  $-\frac{9}{9}$ 
Sum for Simpson's 1/3 Rule (Interval 7):  $-\frac{7605824}{19683}$  xi for Simpson's 1/3 Rule (Interval 8):  $\frac{37}{9}$ 
Sum for Simpson's 1/3 Rule (Interval 8):  $\frac{20739152}{19683}$  xi for Simpson's 1/3 Rule (Interval 8):  $-\frac{11}{5}$ 
Sum for Trapezoidal Rule (Interval 1):  $-\frac{11}{5}$ 
Sum for Trapezoidal Rule (Interval 1):  $-\frac{11}{5}$ 
Sum for Trapezoidal Rule (Interval 2):  $-\frac{7}{5}$ 
Sum for Trapezoidal Rule (Interval 2):  $-\frac{7}{5}$ 
Sum for Trapezoidal Rule (Interval 3):  $-\frac{3}{5}$ 
Sum for Trapezoidal Rule (Interval 4):  $-\frac{16782}{5}$  xi for Trapezoidal Rule (Interval 4):  $-\frac{16782}{5}$  xi for Trapezoidal Rule (Interval 5):  $-\frac{16772}{5}$ 
xi for Trapezoidal Rule (Interval 6):  $-\frac{9}{5}$ 
Sum for Trapezoidal Rule (Interval 6):  $-\frac{400778}{125}$ 

```
xi for Trapezoidal Rule (Interval 7): \frac{13}{r}
Sum for Trapezoidal Rule (Interval 7): -\frac{299472}{125}
xi for Trapezoidal Rule (Interval 8): \frac{17}{-}
Sum for Trapezoidal Rule (Interval 8): -\frac{1718}{125}
xi for Trapezoidal Rule (Interval 9): \frac{21}{r}
Sum for Trapezoidal Rule (Interval 9): \frac{26212}{5}
Sum of f(a) + f(b) for Simpson's 1/3 Rule: 1538
xi for Simpson's 1/3 Rule (Interval 1): -\frac{11}{5}
Sum for Simpson's 1/3 Rule (Interval 1): -\frac{2517064}{1875}
xi for Simpson's 1/3 Rule (Interval 2): -\frac{7}{5}
Sum for Simpson's 1/3 Rule (Interval 2): -\frac{210208}{125}
xi for Simpson's 1/3 Rule (Interval 3): --
5
Sum for Simpson's 1/3 Rule (Interval 3): -\frac{1156016}{3}
xi for Simpson's 1/3 Rule (Interval 4):
Sum for Simpson's 1/3 Rule (Interval 4): -\frac{3478696}{1875}
xi for Simpson's 1/3 Rule (Interval 5): 1
Sum for Simpson's 1/3 Rule (Interval 5): -\frac{3476696}{1875}
xi for Simpson's 1/3 Rule (Interval 6): -
Sum for Simpson's 1/3 Rule (Interval 6): - 3402608
xi for Simpson's 1/3 Rule (Interval 7): \frac{13}{5}
Sum for Simpson's 1/3 Rule (Interval 7): -\frac{518432}{375}
xi for Simpson's 1/3 Rule (Interval 8): \frac{17}{5}
```

Sum for Simpson's 1/3 Rule (Interval 8):  $-\frac{467048}{625}$  xi for Simpson's 1/3 Rule (Interval 9):  $\frac{21}{5}$  Sum for Simpson's 1/3 Rule (Interval 9): 2056 Sum of f(a) + f(b) for Trapezoidal Rule: 1538 xi for Trapezoidal Rule (Interval 1):  $-\frac{25}{11}$  Sum for Trapezoidal Rule (Interval 1):  $-\frac{2658196}{1331}$ 

Out[90]=

$$\left\{ \left\{ 2,\, 3080,\, \frac{12\,800}{257},\, 2056,\, 0 \right\}, \\ \left\{ 3,\, \frac{22\,600}{9},\, \frac{51\,200}{2313},\, \frac{371\,648}{243},\, \frac{1\,599\,500}{62\,451} \right\},\, \left\{ 4,\, 2312,\, \frac{3200}{257},\, 2056,\, 0 \right\}, \\ \left\{ 5,\, \frac{55\,496}{25},\, \frac{2048}{257},\, \frac{550\,288}{625},\, \frac{367\,356}{6425} \right\},\, \left\{ 6,\, \frac{19\,528}{9},\, \frac{12\,800}{2313},\, 2056,\, 0 \right\}, \\ \left\{ 7,\, \frac{104\,840}{49},\, \frac{51\,200}{12\,593},\, \frac{6700\,384}{7203},\, \frac{101\,362\,300}{1\,851\,171} \right\},\, \left\{ 8,\, 2120,\, \frac{800}{257},\, 2056,\, 0 \right\}, \\ \left\{ 9,\, \frac{170\,632}{81},\, \frac{51\,200}{20\,817},\, \frac{20\,739\,152}{19\,683},\, \frac{246\,613\,700}{5\,058\,531} \right\},\, \left\{ 10,\, \frac{52\,424}{25},\, \frac{512}{257},\, 2056,\, 0 \right\}, \\ \left\{ 11,\, \frac{252\,872}{121},\, \frac{51\,200}{31\,097},\, \frac{17\,118\,208}{14\,641},\, \frac{162\,296\,100}{3\,762\,737} \right\},\, \left\{ 12,\, \frac{18\,760}{9},\, \frac{3200}{2313},\, 2056,\, 0 \right\}, \\ \left\{ 13,\, \frac{351\,560}{169},\, \frac{51\,200}{43\,433},\, \frac{108\,502\,768}{85\,683},\, \frac{845\,768\,500}{22\,020\,531} \right\},\, \left\{ 14,\, \frac{101\,768}{49},\, \frac{12\,800}{12\,593},\, 2056,\, 0 \right\}, \\ \left\{ 15,\, \frac{466\,696}{225},\, \frac{2048}{2313},\, \frac{204\,508\,064}{85\,683},\, \frac{515\,200}{21\,64\,4897} \right\},\, \left\{ 18,\, \frac{167\,560}{81},\, \frac{12\,800}{20\,817},\, 2056,\, 0 \right\}, \\ \left\{ 17,\, \frac{598\,280}{289},\, \frac{51\,200}{74\,273},\, \frac{118\,021\,168}{83\,521},\, \frac{67\,1225\,100}{21\,46\,4897} \right\},\, \left\{ 18,\, \frac{167\,560}{81},\, \frac{12\,800}{20\,817},\, 2056,\, 0 \right\}, \\ \left\{ 21,\, \frac{109\,1720}{361},\, \frac{51\,200}{9\,2777},\, \frac{583\,443}{390963},\, \frac{28\,99\,3093}{100\,477\,491} \right\},\, \left\{ 20,\, \frac{51\,656}{25},\, \frac{128}{257},\, 2056,\, 0 \right\}, \\ \left\{ 23,\, \frac{1091\,720}{627},\, \frac{51\,200}{135\,953},\, \frac{88\,4439\,344}{27\,98441},\, \frac{39\,389\,93\,300}{14\,99\,44\,851} \right\},\, \left\{ 24,\, \frac{18\,568}{15},\, \frac{800}{2313},\, 2056,\, 0 \right\}, \\ \left\{ 25,\, \frac{1289\,906}{625},\, \frac{2048}{6425},\, \frac{1864\,544\,464}{1171\,875},\, \frac{27\,24\,15\,2568}{120\,4857},\, \left\{ 24,\, \frac{18\,568}{169},\, \frac{800}{3233},\, 2056,\, 0 \right\}, \\ \left\{ 27,\, \frac{1502\,920}{799},\, \frac{51\,200}{187\,353},\, \frac{25\,85\,143\,324}{1171\,875},\, \frac{27\,415\,2568}{11718\,275},\, \left\{ 24,\, \frac{18\,568}{169},\, \frac{12\,800}{43\,433},\, 2056,\, 0 \right\}, \\ \left\{ 29,\, \frac{17\,33\,192}{733192},\, \frac{51\,200}{187\,353},\, \frac{25\,85\,143\,424}{11718\,75},\, \frac{805\,80300}{409\,741011},\, \left\{ 28,\, \frac{16\,36\,24}{463\,624},\, \frac{512}{2313},\, 2056,\, 0 \right\}, \\$$

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 \left\{33, \frac{2243080}{1089}, \frac{51200}{279873}, \frac{6023080208}{3557763}, \frac{16146006500}{914345091}\right\}, \left\{34, \frac{595208}{289}, \frac{12800}{74273}, 2056, 0\right\}, 
 \left\{35, \frac{2522696}{1225}, \frac{2048}{12593}, \frac{2568858688}{1500625}, \frac{258213156}{15426425}\right\}, \left\{36, \frac{166792}{81}, \frac{3200}{20817}, 2056, 0\right\}, 
 \left\{ 37, \frac{2818760}{1369}, \frac{51200}{351833}, \frac{9720820144}{5622483}, \frac{22987561300}{1444978131} \right\}, \left\{ 38, \frac{743240}{361}, \frac{12800}{92777}, 2056, 0 \right\}, 
 \left\{ 39, \frac{3131272}{1521}, \frac{51200}{390897}, \frac{12106559072}{6940323}, \frac{27034312700}{1783663011} \right\}, \left\{ 40, \frac{51464}{25}, \frac{32}{257}, 2056, 0 \right\}, 
 \left\{41, \frac{3460232}{1681}, \frac{51200}{432017}, \frac{4968969328}{2825761}, \frac{10509941100}{726220577}\right\}, \left\{42, \frac{907720}{441}, \frac{12800}{113337}, 2056, 0\right\}, 
 \left\{43, \frac{3805640}{1849}, \frac{51200}{475193}, \frac{18167350528}{10256403}, \frac{36497675500}{2635895571}\right\}, \left\{44, \frac{249032}{121}, \frac{3200}{31097}, 2056, 0\right\}, 
 \left\{45, \frac{4167496}{2025}, \frac{2048}{20817}, \frac{21935738864}{12301875}, \frac{1678458068}{126463275}\right\}, \left\{46, \frac{1088648}{529}, \frac{12800}{135953}, 2056, 0\right\}, 
 \left\{47, \frac{4545800}{2209}, \frac{51200}{567713}, \frac{8754097888}{4879681}, \frac{15981578100}{1254078017}\right\}, \left\{48, \frac{18520}{9}, \frac{200}{2313}, 2056, 0\right\}, 
 \left\{49, \frac{4940552}{2401}, \frac{51200}{617057}, \frac{31199604112}{17294403}, \frac{54471105700}{4444661571}\right\}, \left\{50, \frac{1286024}{625}, \frac{512}{6425}, 2056, 0\right\}, 
 \left\{ 51, \frac{5351752}{2601}, \frac{51200}{668457}, \frac{36802627904}{20295603}, \frac{61564148300}{5215969971} \right\}, \left\{ 52, \frac{347720}{169}, \frac{3200}{43433}, 2056, 0 \right\}, 
 \left\{ 53, \frac{5779400}{2809}, \frac{51200}{721913}, \frac{14376230416}{7890481}, \frac{23082481500}{2027853617} \right\}, \left\{ 54, \frac{1499848}{729}, \frac{12800}{187353}, 2056, 0 \right\}, 
\left\{55, \frac{6223496}{3025}, \frac{2048}{31097}, \frac{50237488864}{27451875}, \frac{3101783068}{282205275}\right\}, \left\{56, \frac{100808}{49}, \frac{800}{12593}, 2056, 0\right\}, \\ \left\{57, \frac{6684040}{3249}, \frac{51200}{834993}, \frac{58191083984}{31668003}, \frac{86479127300}{8138676771}\right\}, \left\{58, \frac{1730120}{841}, \frac{12800}{216137}, 2056, 0\right\},
 \left\{ 59, \frac{7161032}{3481}, \frac{51200}{894617}, \frac{22351302784}{12117361}, \frac{32024892900}{3114161777} \right\}, \left\{ 60, \frac{462856}{225}, \frac{128}{2313}, 2056, 0 \right\}, 
 \left\{ 61, \frac{7654472}{3721}, \frac{51200}{956297}, \frac{76892762224}{41537523}, \frac{106354813300}{10675143411} \right\}, \left\{ 62, \frac{1976840}{961}, \frac{12800}{246977}, 2056, 0 \right\}, 
 \left\{63, \frac{8164360}{3969}, \frac{51200}{1020033}, \frac{87776814368}{47258883}, \frac{117343113500}{12145532931}\right\}, \left\{64, 2057, \frac{25}{514}, 2056, 0\right\},\right\}
                \frac{8690696}{4225}, \frac{2048}{43433}, \frac{33259200688}{17850625}, \frac{1720842156}{183504425} \right\}, \left\{66, \frac{2240008}{1089}, \frac{12800}{279873}, 2056, 0\right\},
 \left\{67,\,\frac{9\,233\,480}{4489}\,,\,\frac{51\,200}{1\,153\,673}\,,\,\frac{112\,969\,031\,104}{60\,453\,363}\,,\,\frac{141\,538\,540\,300}{15\,536\,514\,291}\right\},\\ \left\{68,\,\frac{594\,440}{289}\,,\,\frac{3200}{74\,273}\,,\,2056,\,0\right\},
 \left\{ 69, \frac{9792712}{4761}, \frac{51200}{1223577}, \frac{127427375792}{68001363}, \frac{154792831700}{17476350291} \right\}, \left\{ 70, \frac{2519624}{1225}, \frac{512}{12593}, 2056, 0 \right\}, 
 \left\{ 71, \frac{10368392}{5041}, \frac{51200}{1295537}, \frac{47743759648}{25411681}, \frac{56283206100}{6530802017} \right\}, \left\{ 72, \frac{166600}{81}, \frac{800}{20817}, 2056, 0 \right\}, 
               10 960 520 51 200 160 461 751 888 183 732 482 500
 \left\{74, \frac{2815688}{1369}, \frac{12800}{351833}, 2056, 0\right\}
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$$\left\{75, \frac{1569096}{5625}, \frac{2048}{57825}, \frac{179202174464}{94921875}, \frac{7978600268}{975796875}\right\}, \left\{76, \frac{742472}{361}, \frac{3200}{92777}, 2056, 0\right\}, \\ \left\{77, \frac{12194120}{5929}, \frac{51200}{1523753}, \frac{66512765008}{35153041}, \frac{72023591100}{9034331537}\right\}, \left\{78, \frac{3128200}{1521}, \frac{12800}{390897}, 2056, 0\right\}, \\ \left\{79, \frac{12835592}{6241}, \frac{51200}{1603937}, \frac{221558230432}{116850243}, \frac{233573364700}{30030512451}\right\}, \\ \left\{80, \frac{51416}{25}, \frac{8}{257}, 2056, 0\right\}, \left\{81, \frac{13493512}{6561}, \frac{51200}{1686177}, \frac{245352466064}{129140163}, \frac{251996363300}{33189021891}\right\}, \\ \left\{83, \frac{14167880}{6889}, \frac{51200}{1770473}, \frac{90337951936}{936431282}, \frac{90454450500}{12196788497}\right\}, \left\{84, \frac{906952}{441}, \frac{3200}{13337}, 2056, 0\right\}, \\ \left\{85, \frac{14855696}{7225}, \frac{2048}{74273}, \frac{298637622064}{156601875}, \frac{11669867275}{169867275}, \frac{86}{869}, \frac{3802568}{475193}, \frac{117869283}{1619867275}, \frac{31200}{44170405731}\right\}, \\ \left\{88, \frac{248840}{121}, \frac{800}{31097}, 2056, 0\right\}, \left\{89, \frac{16289672}{7921}, \frac{51200}{2035697}, \frac{120055005424}{62742241}, \frac{111788025900}{16124755937}\right\}, \\ \left\{90, \frac{4164424}{2025}, \frac{512}{20817}, 2056, 0\right\}, \left\{91, \frac{17029832}{179294931}, \frac{51200}{529}, \frac{3200}{135953}, 2056, 0\right\}, \\ \left\{93, \frac{17786440}{8649}, \frac{51200}{222279}, \frac{430743798128}{2244156603}, \frac{33813520500}{57674809971}\right\}, \\ \left\{94, \frac{4542728}{2099}, \frac{12800}{567713}, 2056, 0\right\}, \left\{97, \frac{18599496}{9409}, \frac{2048}{51859496}, \frac{156563560288}{90277}, \frac{5449462356}{837312425}\right\}, \\ \left\{96, \frac{863}{9}, \frac{203}{2313}, 2056, 0\right\}, \left\{97, \frac{19349000}{9409}, \frac{51200}{2418113}, \frac{511221013264}{265587843}, \frac{435344899300}{68256075651}\right\}, \\ \left\{96, \frac{4937480}{2401}, \frac{12800}{617057}, 2056, 0\right\}, \left\{99, \frac{20154952}{25818757}, \frac{12805506}{258857460}, \frac{2056}{625}, \frac{0}{625}\right\}$$

Out[92]=

	Γ		T	T T
n	Trapezoidal Result	Trapezoidal Error	Simpsons Result	Simpsons Error
2	3080	12 800 257	2056	0
3	22 600	51 200	371 648	1 599 500
	9	2313	243	62 451
4	2312	3200 257	2056	Θ
5	55 496	2048	550 288	367 356
	25	257	625	6425
6	<u>19 528</u> 9	12 800 2313	2056	Θ
7	104 840	51 200	6 700 384	101 362 300
	49	12 593	7203	1851171
8	2120	800 257	2056	0
9	170 632	51 200	20 739 152	246 613 700
	81	20 817	19 683	5 058 531

10	<u>52 424</u> 25	<u>512</u> 257	2056	0
11	252 872	51 200	17 118 208	162 296 100
	121	31 097	14 641	3 762 737
12	18 760 9	3200 2313	2056	0
12	351 560	51 200	108 502 768	845 768 500
13	169	43 433	85 683	22 020 531
14	101 768 49	12 800 12 593	2056	0
	466 696	2048	204 508 064	53 873 468
15	225	2313	151 875	1561275
16	2072	200 257	2056	0
1.7	598 280	51 200	118 021 168	671 225 100
17	289	74 273	83 521	21 464 897
18	167 560	12 800	2056	0
	81	20 817		-
19	746 312 361	51 200 92 777	574 230 592 390 963	2 869 866 700 100 477 491
	51656	128		
20	25	257	2056	0
21	910 792	51 200	884 439 344	3 938 993 300
	441	113 337	583 443	149 944 851
22	$\frac{249800}{121}$	12 800 31 097	2056	0
	1091720	51 200	435 496 096	1 748 212 500
23	529	135 953	279 841	71 919 137
24	18 568	800	2056	0
۷'	9	2313		-
25	<u>1 289 096</u> 625	2048 6425	1 864 544 464 1 171 875	272 415 268 12 046 875
2.0	348 488	12 800		
26	169	43 433	2056	0
27	1 502 920 729	51 200 187 353	2 585 143 424 1 594 323	8 659 808 300 409 741 011
28	101 000	3200	2056	0
	49	12 593		_
29	1733192 841	51 200 216 137	1 165 729 744 707 281	3 605 499 900 181 771 217
20	463 624	512		
30	225	2313	2056	0
31	1979912	51 200	4 631 954 464	13 304 038 300
-	961	246 977 50	2 770 563	712 034 691
32	2060	257	2056	0
33	2 243 080	51 200	6 023 080 208	16 146 006 500
	1089	279 873	3 557 763	914 345 091
34	<u>595 208</u> 289	12 800 74 273	2056	0
35	2 522 696	2048	2 568 858 688	258 213 156
	1225 166 792	12 593 3200	1 500 625	15 426 425
36	81	20 817	2056	0
27	2 818 760	51 200	9 720 820 144	22 987 561 300
37	1369	351 833	5 622 483	1 444 978 131
38	743 240 361	12 800 92 777	2056	0
39	3 131 272	51 200	12 106 559 072	27 034 312 700
55	1521	390 897	6 940 323	1 783 663 011
40	<u>51 464</u> 25	32 257	2056	0
41	3 460 232	51 200	4 968 969 328	10 509 941 100
	1681	432 017	2 825 761	726 220 577
42	$\frac{907720}{441}$	12 800 113 337	2056	0
43	3 805 640	51 200	18 167 350 528	36 497 675 500
43	1849	475 193	10 256 403	2 635 895 571
44	249 032	3200	2056	0
	121	31 097	I	I

45					
\$\frac{1688648}{522}	45				
47         529         135593         15593         4876907888         15981578100           48         16520         200         567713         4879681         1254678017         1254678017           49         2496552         51208         3119964112         54471195708           49         2496552         51208         3119964112         54471195708           50         1286624         512         2056         0           625         625         6425         2056         0           51         2531752         51208         3680627994         61564148300           52         347720         32286         20556         0           51         15379400         51208         20556         0           52         347720         32360         20556         0           53         5779400         51208         20556         0           54         1499848         12889         20556         0           55         6223496         2048         30278         31097         27451875         282226275           56         49         12533         2056         0         0           57 <t< td=""><td>46</td><td></td><td></td><td></td><td></td></t<>	46				
A					,
48         9         2313         2056         0           49         494 552         51206         31199684112         54471105768           50         1286 024         512         2056         0           51         2625         6425         2056         0           51         5351752         51280         36802 627 994         61564148 306           52         2881         668 457         20 295 603         512569971           52         347720         3200         20 2056         0           53         779-100         51 200         14 376 230 416         23 682 481 500           54         1499 648         12 800         20 56         0           55         6223 496         20 48         50 237 488 864         310 178 868           56         42 33         10 56         0         0           57         65 40 9         12 593         20 56         0           57         65 64 640         51 200         35 19 183 994         31 178 368           58         1736 120         12 800         20 56         0           59         716 16 32         51 200         22 351 30 2784         32 24 89 290	47				
49         494	48			2056	0
Transfer	49	<del>-</del>		31 199 604 112	
50         625         6475         2050         0           51         5351752         51206         3680627994         61564148306           52         347726         3200         20.295603         61564148306           53         5779460         51206         14376238416         23.882481506           54         72890         721913         7890481         20.27853617           54         7799462         11800         2056         0           55         6223496         2048         5623748864         3101783664           57         6223496         2048         5623748864         310178366           56         49         12593         2056         0           57         6684040         51200         5619183984         86479127300           58         1739120         12800         5619183984         86479127300           59         7.161032         51200         5619183984         86479127300           59         7.161032         51200         56191839394         86479127300           60         4623556         128         2351302784         32024892908           51         7.161032         51200         76892					
51         2601         668457         20295603         5215969971           52         347729         3298         2056         0           53         5779409         51200         14376230416         23082481500           54         1499848         12809         721913         7890481         2027553617           55         6233496         2048         50237488864         318178366           55         3025         31.097         27451875         282205275           56         100808         800         2056         0           57         668446         51200         58191083984         86479127300           57         668446         51200         2056         0           58         1730120         12800         2056         0           59         7161032         51200         23351302784         313876771           50         42656         128         2056         0           60         462856         128         2056         0           61         765472         51200         22351302784         32024892900           61         7654472         51200         22351302784         3204892900 </td <td>50</td> <td></td> <td></td> <td>2056</td> <td>0</td>	50			2056	0
52         347128 169         3208 43433         2056         0           53         5779 406 2809         51209 721913         14376238416 7890481         23 682 481 590 2027 853 617           54         1499348         112800 187353         2056         0           55         6223496 3025         2048 3187353         59237488 864 27451875         3101783 968 282205275           56         108808 49         800 12593         2056         0           57         6684640 3249         51290 834993         31668003 31668003         8138676771           58         1738120         12 880 21 280 341         2056         0           59         7161022 3481         51290 894617         22 351302784 3117361         3124161777           60         462856 225         128 2313         2056         0           61         7654472 3721         51200 595297         41537523 41537523         16675143411           62         1976840         12800 225         2056         0           63         3164360         51200 51200         47537583         174313150           64         2057         514         2056         0           65         8699666         51200 42483         4725883	51				
53         5779 496 2809         51200 721913         14376 236416 7890481         2382481 500 2027 853617           54         1499848 1729         12800 187353         2056         0           55         6223496 3025         2048 31097         50237488864 27451875         3101783 668 282205275           56         100 8808 49         800 12593         2056         0           57         6684046 63249         51200 834993         58191083984 31668093         8647127300 813867771           58         1730120         12800 216137         2056         0           59         7161032         51200 3481         2351300 894617         32024892900 81386771           60         462856 128 225         128 2313         2056         0           61         765472 3721         51200 956297         76892762224 41537523         116534813390 10675143411           62         1976840         12800 246977         2056         0           63         8164360 951         51200 246977         8776814368 117343113500         11745213411           64         2057         514         2056         0           65         8696666 22448         33259206688 1785065         172642155           64         2057         514	52	347 720	3200		
54         1499848 12800 729         721913         7890481         2227853617           55         1499848 3025         12848 11997         2056         0           56         109888 49         12593 12593         2056         0           57         6684040 3249         51200 834993         31668083 31668083         836479127300 834993           58         1730120 841         12800 216137         2056         0           59         7161032 3481         51200 894617         22351392784 3114161777         3224982990           60         462856 225         128 2313         2056         0           61         7654472 3721         51200 956297         76892762224 41537523         106354813300 10675143411           62         1976840 961         12880 246977         2056         0           63         3164360 961         12800 246977         2056         0           64         2057         25         2058         0           63         3164360 961         12800 246977         2056         0           64         2057         514         2056         0           65         8696696         2048         3325200668         117343113500           6	53			14 376 230 416	23 082 481 500
54         7:79         187353         2056         0           55         6223496         2048         5023748864         3101783068           56         100808         800         27451875         282295775           56         49         12593         2056         0           57         6684049         51200         58191083984         86479127300           58         1730120         12800         2056         0           59         7161032         51200         22351302784         32024892900           59         7161032         51200         22351302784         32024892900           60         462856         128         2056         0           61         7654472         51200         76892762224         106354813300           61         7654472         51200         76892762224         106354813300           62         255         2313         2056         0           63         364360         51200         76892762224         106354813300           64         2057         25         2056         0           63         3164360         51200         87776814368         117343113500				7 890 481	2 027 853 617
Second Part	54			2056	0
56         100 808 49         800 12593         2056         0           57         3249         834 993         31668 003         8138 676 771           58         1730 120         12800         2056         0           59         7161 032         51200         22351302 784         32024892 900           59         3481         894617         12117361         3114161777           60         462 856         128         2056         0           61         7654 472         51200         76892 762 224         106 354 813 300           61         7654 472         51200         76892 762 224         106 354 813 300           62         1976 840         12800         2056         0           63         8164 360         51200         87776 814 368         117 343 113 500           64         2057         25         2056         0           65         8690 696         2048         32 59 200 688         117 343 113 500           66         2240 008         12 800         2056         0           65         8690 696         2048         33 259 200 688         1720 842 156           65         8690 696         2048 <t< td=""><td>55</td><td></td><td></td><td></td><td></td></t<>	55				
49         12593         58         19183984         86479127300           57         6684040         51200         324993         31668003         8138676771           58         1730120         12800         2056         0           59         7161032         51200         22351302784         32024892900           3481         894617         12117361         3114161777           60         462856         128         2056         0           61         7654472         51200         76892762224         106354813300           61         37721         956297         41537523         10675143411           62         1976840         12880         2056         0           63         8164360         51200         87776814368         117343113500           64         2057         25         2056         0           65         8690696         2048         33259200688         1720842156           66         224008         12800         2056         0           67         9233480         51200         11296931104         141538540300           68         594440         3200         2056         0	56	**-*			
State					
SS	57	3249	834 993		
59         7161032 3481         51200 894617         22351302784 12117361         32024892900 3114161777           60         462856 225         128 2313         2056         0           61         7654472 3721         51200 956297         76892762224 41537523         106354813300 10675143411           62         1976840 961         12800 246977         2056         0           63         8164360 3969         51200 1020033         87776814368 4725883         117343113500 12145532931           64         2057         25 514         2056         0           65         8690696 4225         2048 43433         3259200688 1789625         1720842156 183594425           66         2246008 1089         12800 279873         2056         0           67         9233480 4489         51200 1153673         112969031104 6045363         141538540300 15536514291           68         594440 289         3200 74273         2056         0           69         9792712 4761         51200 1223577         12747375792 68001363         154792831700 17476350291           70         2519624 1225         51200 12253753         2056         0           71         10368392 5041         51200 1295537         47743759648 25411681         56283206100 65380201	58			2056	0
60         462 856 225         128 2313         2056         0           61         7654472 3721         51 200 956 297         76 892 762 224 41 537 523         106 354 813 300 10 675 143 411           62         1976 840 961         12 800 246 977         20 56         0           63         8 164 360 3969         51 200 10 20 033         87 776 814 368 47 258 883         117 343 113 500 12 145 532 931           64         20 57         25 514         20 56         0           65         8 690 696 4225         20 48 43 433         33 259 200 688 17 850 625         172 842 156 183 504 425           66         22 40 008 1089         12 800 27 9 873         20 56         0           67         9 233 480 489         51 200 113 3673         112 969 031 104 60 453 363         14 15 38 540 300 15 536 514 291           68         594 440 289         3200 74 273         20 56         0           69         9 792 712 4761         51 200 12 25 19 624         12 27 27 37 5792 15 47 28 31 700         15 4792 83 1700 17 476 350 291           70         2 519 624 1225         51 200 1225         47 773 75 962 68 001 363         15 4792 83 1700 17 476 350 291           71         10 368 392 5041         51 200 5041         47 773 75 9648 5041         56 283 2061 100 6 530 802 017	59	7 161 032	51 200		
61         7654472 3721         51200 956297         76892762224 41537523         106354813300 10675143411           62         1976840 961         12800 246977         2056         0           63         8164360 3969         51200 1020033         87776814368 47258883         117343113500 12145532931           64         2057         25 514         2056         0           65         869666 4225         2048 43433         33259200688 17850625         1720842156 183504425           66         2240008 1089         12800 279873         2056         0           67         9233480 4489         51200 1153673         112969031104 60453363         141538540300 15536514291           68         594440 289         3200 74473         2056         0           69         9792712 4761         51200 1223577         127427375792 68001363         154792831700 17476350291           70         2519624 1225         512 12593         2056         0           71         10368392 1225         51200 5041         47743759648 20817         56801363 2056         60           72         166600 81 80         800 20817         2056         0           73         10960520 5525         51200 5525         160461751888 8183732482500 66512765008					
61         3721         956297         41537523         10675143411           62         1976840         12800         2056         0           63         8164360         51200         87776814368         117343113500           64         2057         25         2056         0           65         8690696         2048         33259200688         1720842156           66         1224008         12800         2056         0           67         9233480         51200         112969031104         141538540300           68         594440         3200         2056         0           69         9792712         51200         112969031104         141538540300           69         9792712         51200         127427375792         154792831700           69         9792712         51200         12742735792         154792831700           70         2519624         512         2056         0           71         10368392         51200         477437592         154792831700           72         166600         800         2056         0           73         10960520         51200         47743759648         562832061	60	225	2313		•
62         1976 840 961         12 800 246 977         2056         0           63         8164 360 3969         51200 1020 033         87776 814 368 47 258 883         117 343 113 500 12145 532 931           64         2057         25 514         2056         0           65         8690 696 4225         2048 43 433         17 850 625         183 504 425           66         2240 008 1089         12 800 279 873         2056         0           67         9 233 480 4489         51 200 1153 673         112 969 031 104 60 453 363         14 1538 540 300 15 536 514 291           68         594 440 289         3200 74 273         2056         0           69         9 792 712 4761         51 200 1223 577         154 792 831 700 68 001 363         17 476 350 291           70         2 51 96 24 1225         51 200 1225 577         48 001 363         17 476 350 291           71         10 368 392 125 5041         51 200 129 5537         47743 759 648 25 411 681         56 283 206 100 6 530 802 017           72         166 600 81         800 20 817         2056         0           73         10 960 520 5329         51 200 13 69 553         160 461 751 888 85 194 723         183 732 482 500 21 895 043 811           74         2 815 688 1369         12	61				
63         8164360 3969         51200 1020033         87776814368 47258883         117343113500 12145532931           64         2057         25 514         2056         0           65         8690696 4225         2048 43433         33259200688 17850625         1720842156 183504425           66         2240008 1089         122800 279873         2056         0           67         9233480 4489         51200 1153673         112969031104 60453363         141538540300 15536514291           68         594440 289         3200 74273         2056         0           69         9792712 4761         51200 1223577         12742735792 68001363         154792831700 174676350291           70         2519624 1225         512 12593         2056         0           71         10368392 5041         51200 1295537         2056         0           71         10368392 5041         51200 1295537         25411681         6530802017           72         166600 81         800 20817         2056         0           73         10960520 5329         51200 20817         160461751888 85194723         183732482500 21895043811           74         2815688 1369         12800 351833         2056         0           75         <	62	1 976 840	12 800		
64         2057         25 / 514         2056         0           65         8690 696 / 4225         2048 / 43433         33 259 290 688 / 172 842 156 183 504 425           66         2240 008 / 1089         12 800 / 279 873         2056         0           67         9233 480 / 4489         51 200 / 1153 673         112 969 031 104 / 141 538 540 300 155 365 14 291           68         594 440 / 289         3200 / 74 273         2056         0           69         9 792 712 / 4761         51 200 / 1223 577         154 792 831 700 / 68 001 363         17 476 350 291           70         2519 624 / 4761         1223 577         2056         0           71         10 368 392 / 5041         512 / 509         2056         0           71         10 368 392 / 5041         51200 / 474 375 9648         56 283 206 100 / 68 00 17           72         166 600 / 5041         800 / 20817         2541 681 / 6530 802 017           73         10 960 520 / 5329         51200 / 369 53         85194 723         183 732 482 500 / 2189 5043 811           74         2815 688 / 3169 / 31833         2056 / 0         0         0           75         11 569 096 / 5625         57 825         179 202 174 464 / 7978 600 268 / 975 796 875           76         742	63			87 776 814 368	117 343 113 500
64         2057         514         2056         0           65         8690 696 4225         2048 43433         33 259 200 688 17850 625         1720 842 156 183 504 425           66         2240 008 1089         12800 279 873         2056         0           67         9233 480 4489         51200 1153 673         112 969 931 104 60 453 363         1415 38 540 300 15 536 514 291           68         594 440 289         3200 74 273         2056         0           69         9792 712 4761         51200 1223 577         154 792 831 700 68 001 363         154 792 831 700 174 76 350 291           70         2519 624 1225         512 12593         2056         0           71         10 368 392 5041         512 00 1295 537         2056         0           72         166 600 81         800 20 817         2056         0           73         10 960 520 81         51200 20 817         2056         0           74         2815 688 1369         12800 351833         2056         0           75         11569 096 5625         2048 57825         179 202 174 464 94 921 875         79 77 8600 268 97 5796 875           76         742 472 361         3200 92 777         2056         0           77         12	63	3969		47 258 883	12 145 532 931
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