

Proof that A356609 consists of all numbers divisible by at least one of 6, 8, 10, 14, 44, 52.

If k is divisible by 6, then k is in the sequence because $k = \frac{k}{6} + \frac{k}{6} + \frac{k}{6} + \frac{k}{6} + \frac{k}{6} + \frac{k}{6}$ exhibits k as the sum of 6 divisors of k and thus a member of A356609.

If k is divisible by 8 then $k = \frac{k}{4} + \frac{k}{4} + \frac{k}{8} + \frac{k}{8} + \frac{k}{8} + \frac{k}{8}$.

If k is divisible by 10, then $k = \frac{k}{5} + \frac{k}{5} + \frac{k}{5} + \frac{k}{5} + \frac{k}{10} + \frac{k}{10}$.

If k is divisible by 14, then $k = \frac{k}{2} + \frac{k}{7} + \frac{k}{7} + \frac{k}{14} + \frac{k}{14} + \frac{k}{14}$.

If k is divisible by 44, then $k = \frac{k}{2} + \frac{k}{4} + \frac{k}{11} + \frac{k}{11} + \frac{k}{22} + \frac{k}{44}$.

If k is divisible by 52, then $k = \frac{k}{2} + \frac{k}{4} + \frac{k}{13} + \frac{k}{13} + \frac{k}{13} + \frac{k}{52}$.

Conversely, to show every member of A355641 is divisible by at least one of those six numbers, we consider all positive integer solutions of the equation $1 = \frac{1}{a} + \frac{1}{b} + \frac{1}{c} + \frac{1}{d} + \frac{1}{e} + \frac{1}{f}$. Without loss of generality, we may assume $a \leq b \leq c \leq d \leq e \leq f$. In particular,

$$\frac{6}{a} \geq \frac{1}{a} + \frac{1}{b} + \frac{1}{c} + \frac{1}{d} + \frac{1}{e} + \frac{1}{f} = 1 \text{ so } a \leq 6. \text{ Similarly, given } a, \frac{5}{b} \geq \frac{1}{b} + \frac{1}{c} + \frac{1}{d} + \frac{1}{e} + \frac{1}{f} = 1 - \frac{1}{a}, \text{ so } b \leq \frac{5}{1 - \frac{1}{a}}. \text{ On the other hand, } \frac{1}{a} + \frac{1}{b} < 1 \text{ so } b > \frac{1}{1 - \frac{1}{a}}.$$

Similarly we can get upper and lower bounds for each of the variables in terms of the previous ones, and enumerate all solutions $[a, b, c, d, e, f]$ using the following Maple program.

```
> R:= NULL:
  for a from 2 to 6 do
    x:= 1-1/a;
    for b from max(a,1+floor(1/x)) to floor(5/x) do
      y:= x-1/b;
      for c from max(b,1+floor(1/y)) to floor(4/y) do
        z:= y-1/c;
        for d from max(c,1+floor(1/z)) to floor(3/z) do
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w:= z-1/d;
for e from max(d,1+floor(1/w)) to floor(2/w) do
  f:= 1/(w-1/e); if f::integer and f >= e then R:= R,
[a,b,c,d,e,f] fi
od od od od od:

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nops([R])

3462

(1)

It turns out there are 3462 solutions with $a \leq b \leq c \leq d \leq e \leq f$. Each corresponds to a possible pattern $k = \frac{k}{a} + \frac{k}{b} + \frac{k}{c} + \frac{k}{d} + \frac{k}{e} + \frac{k}{f}$ for writing k as the sum of 6 of its divisors which works if and only if k is divisible by each of a, b, c, d, e, f and thus by $lcm(a, b, c, d, e, f)$. We check that all solutions have the property that $lcm(a, b, c, d, e, f)$ is divisible by at least one of 6, 8, 10, 14, 44 and 52.

```

> Lcms:= map( ilcm, {R} ):
> andmap(t -> t mod 6 = 0 or t mod 8 = 0 or t mod 10 = 0 or t mod
14 = 0 or t mod 44 = 0 or t mod 52 = 0, Lcms);
true

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(2)

For those who wish to check out the full list of solutions, here they are:

R

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(3)

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