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4AU19CS010

Algorithm:

1. Start
2. Input N1 & D1
3. Input N2 & D2
4. $N_3 = (N_1 * D_2) + (N_2 * D_2)$
5. $D_3 = D_1 * D_2$
6. Repeat for(i=1; i<=N3 && i<=D3; i++)
   If (N3 % i == 0 && D3 % i == 0)
   gcd = i
   end if
   end for.
7. Output N3/gcd, D3/gcd;
8. Stop.

Flowchart: