

D If either of them = id, entput id
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D If both are non-triv, then output to be non-triv.
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$$f$$
 f g f f g f f g
This is a G-89
That to computes from
id g d g d g' = id where $t = \alpha_{B}\alpha'_{B}'$
or id id g d g' = id where $t = \alpha_{B}\alpha'_{B}'$
The averaged if $\alpha_{B}\alpha''\beta' \neq id$. ($\alpha_{B} \neq \beta \alpha$)
Fact: (12345) (13542) (12345)^I (13542)^I
= (13254).
 f f g f g f g
 $\alpha'_{B}\alpha'_{B}''\beta''$ comp. f g
 $\alpha'_{B}\alpha'_{B}''\beta'' comp. frog$
(02345) - ion frog
(02345) - ion frog
(02345) - ion frog
 $defth$ d, then f is (12345) - comp. by a G-89
g length 4^d



Given 3 numbers
$$a, b, C$$
. of $l-bits$
Want to output 2 numbers x, y of $\leq l+1$ bits $\overline{5}$
such that $a+b+C = x+y$.

