

Note

4 9

output

input

1 1 output

In the first sample, Limak weighs 4 and Bob weighs 7 initially. After one year their weights are $4 \cdot 3 = 12$ and $7 \cdot 2 = 14$ respectively (one weight is tripled while the other one is doubled). Limak isn't larger than Bob yet. After the second year weights are 36 and 28, so the first weight is greater than the second one. Limak became larger than Bob after two years so you should print 2.

In the second sample, Limak's and Bob's weights in next years are: 12 and 18, then 36 and 36, and finally 108 and 72 (after three years). The answer is 3. Remember that Limak wants to be larger than Bob and he won't be satisfied with equal weights.

In the third sample, Limak becomes larger than Bob after the first year. Their weights will be 3 and 2 then.

A Generalised Eq.

$$1 > \log_{(^{2}/2)} \left(\frac{LW}{RW}\right)$$

Since we cannot represent this directly in CPP. (knee we need to use Base charging weethed.

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 $\Rightarrow 4 \times 3^{\circ} > 9 \times 2^{\circ}$ -> BW downs God: No. of yes when LW > BW $\rightarrow \wedge, \log(\wedge)$ * what we know? → 3° > 2° always, ∧ ≥ 1 Analyse the Math. 4×3,79×2, 1 > log (3/2) (9/4)