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with factors.

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823. Binary Trees With Factors











than 1.

We make a binary tree using these integers, and each number may be used for any number of times. Each non-leaf node's value should be equal to the product of the values of its children.

Return the number of binary trees we can make. The answer may be too large so return the answer **modulo** $10^9 + 7$.

Example:
$$0 = \frac{2}{4}, \frac{4}{5}, \frac{10}{10}$$

Output = $\frac{7}{4}$

(2) [4) [5] (10) (10)

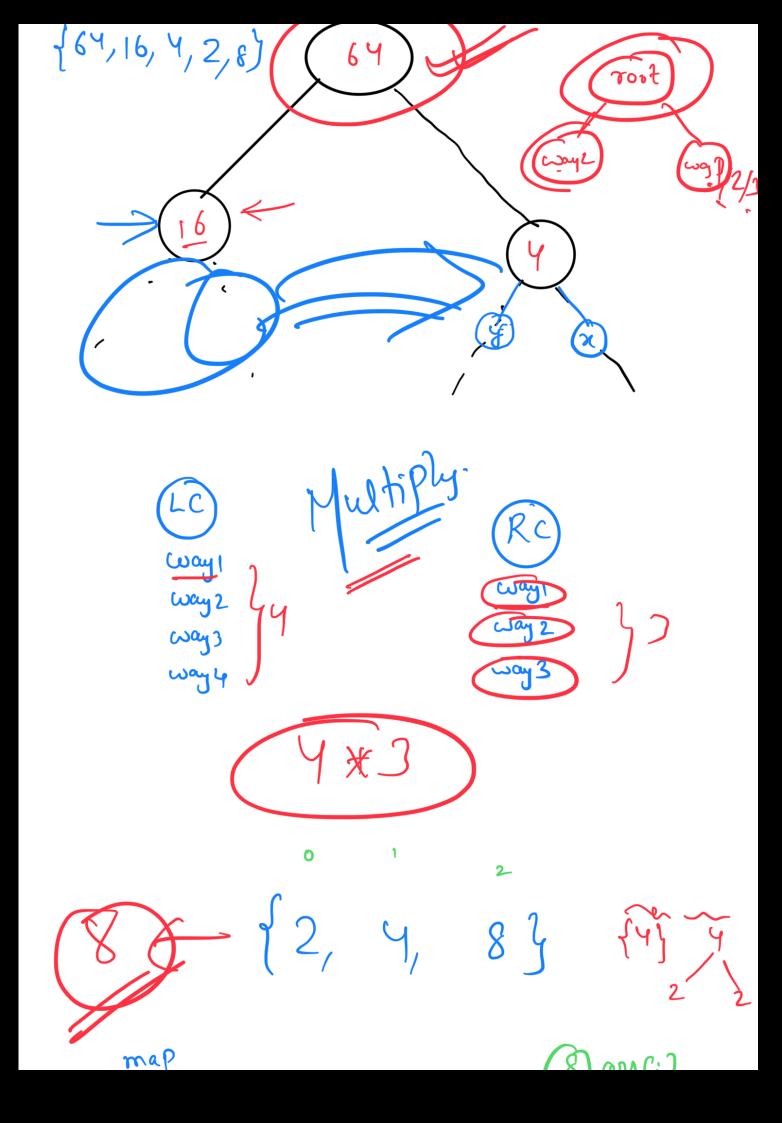
(10) (10)

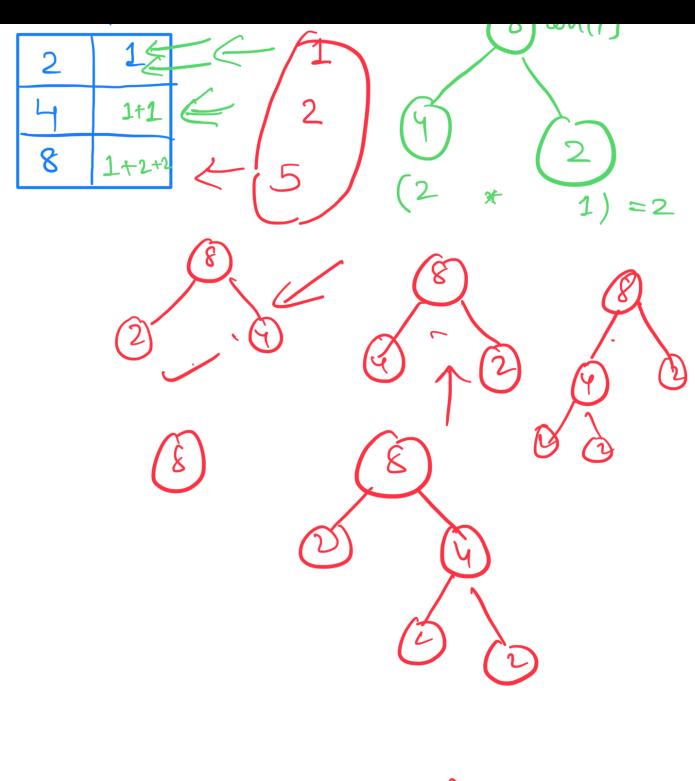
(2) (2) (5) (5) (2)



743, 84,2,23, 823, 853, 803, 810,2,53, 810,5,23 2, 5, ં જામ(i) ove (i)/an(j) x = 145=2 for (i=0; i<n; i++) } Sorti for (j=0; j<i; j++)

important Pout of the On § 2, 4, 8} foor





$$(3) i = 1; i < n$$

$$j \ge 0; j < i$$

$$(4) j \ge 0; j < i$$

(5) Multiply. LC = an (j]; roof./.lc ==0

RC = roof/LC -> map.

mp(roof) += mp[LC] * mp[RC]