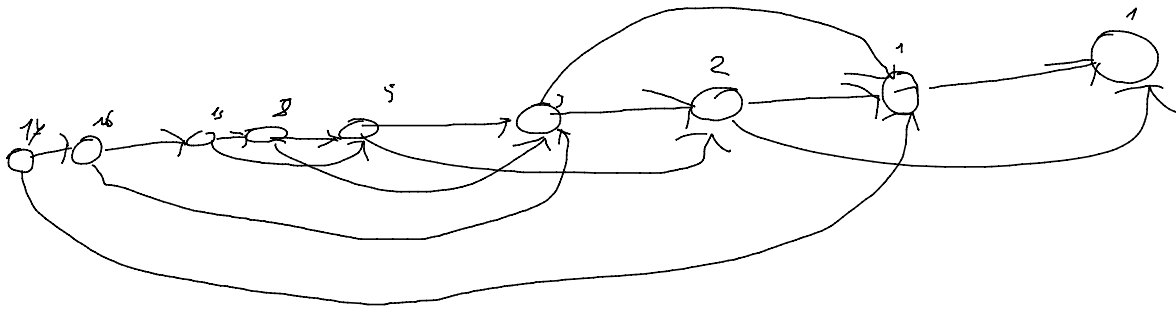


$$2^k$$

$$2^4 = 16$$

$\overline{2} \quad \overline{5} \quad \overline{3} \quad \overline{2} \quad \overline{1} \quad \overline{1} \quad \overline{0}$



$$dp[1] = dp[2] = 1$$

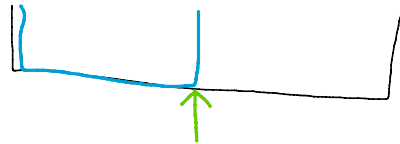
$$dp[i] = dp[i-1] + dp[nd]$$

$$g[i].pb(i+1)$$

$$g[i].pb(nd)$$

$$h(in) = \text{hash}$$

$$A < B$$



$$\boxed{a}$$

$$\boxed{b}$$

$$a \leq a \leq b$$

$$ax^3 + bx^2 + ax + b$$

$$(\text{mod } P)$$

$$x \cdot P < 2^{64}$$

$$a$$

$$\dots + h = (a)x + b$$

a

$$ax + b = (a)x + b$$

$$ax^2 + bx + a = (ax + b)x + a$$

$$\varphi(p-1) \quad k \quad p$$

$$\frac{k}{p} = \frac{10^5}{10^9} = \frac{1}{10^4}$$

$$\left(\frac{k}{p}\right)^2 = \frac{1}{10^8}$$

6	4	2	8	7	4
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$$6x^5 + 4x^4 + 2x^3 + 8x^2 + 7x + 4$$

$4x^4 + 2x^3 + 8x^2 + 7x + 4$

5	4	2	8	7	4
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$4x^4 + 2x^3 + 8x^2 + 7x + 4$

$4x^2 + 7x + 8$

$4x + 7$

4

$$4x^3 + 7x^2$$

for $i=0, i < 2$
 $i \in \{0, 1\}$

for
if (dp[i])
 if (h1 ^{store} >= h2)
 dp[i + 1] = true
