

90 → ~~90~~ 45 30 24 98 → ~~98~~ 49 42

91 → ~~91~~ 78 99 → ~~99~~ 66 60

92 → ~~92~~ 46 100 → ~~100~~ 50 40

93 → ~~93~~ 62

94 → ~~94~~ 47

95 → ~~95~~ 76

96 → ~~96~~ 48 32

97 → 97

fact[93] = 31

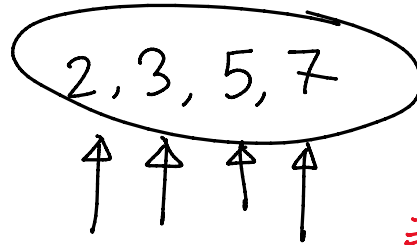
fact[90] = 1

fact[99] = 33

$[L, R]$

$[1, \sqrt{R}]$

93 = 3 × 31



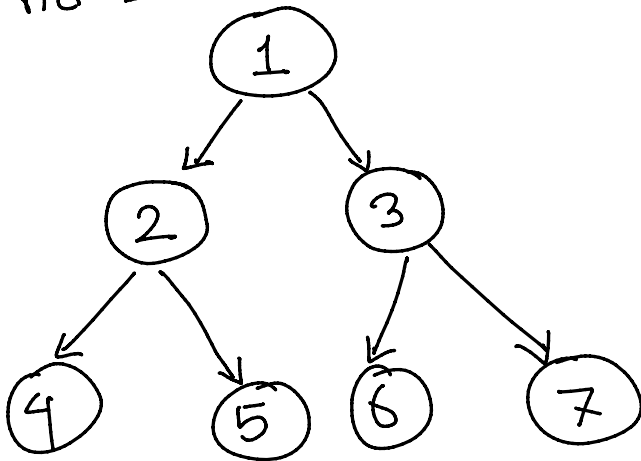
$P^2 \leq R$
 $\Rightarrow P \leq \sqrt{R}$

$\phi(90) = 90 \left(\frac{1}{2}\right) \left(\frac{2}{3}\right) \left(\frac{4}{5}\right)$

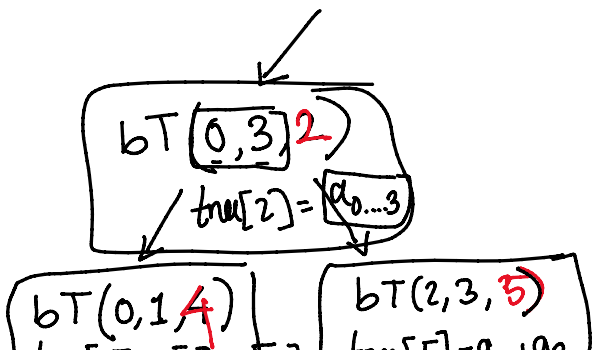
fact[N] = $P^2 \leq R$

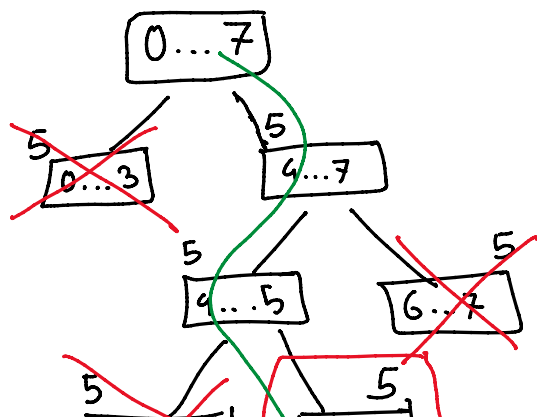
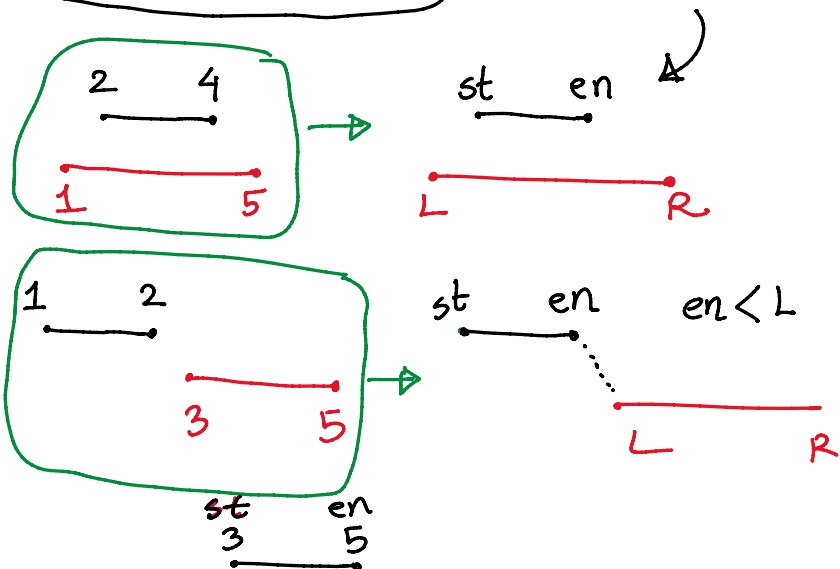
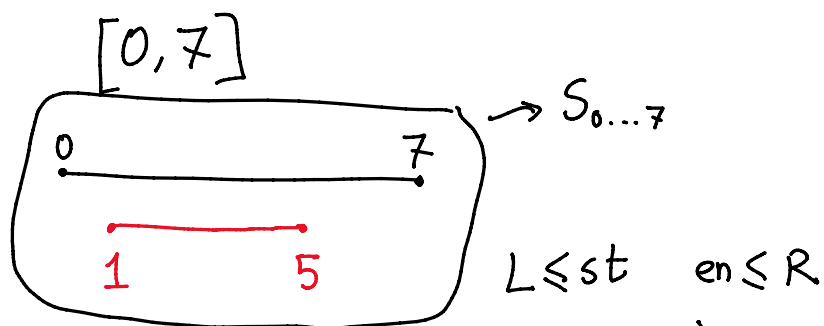
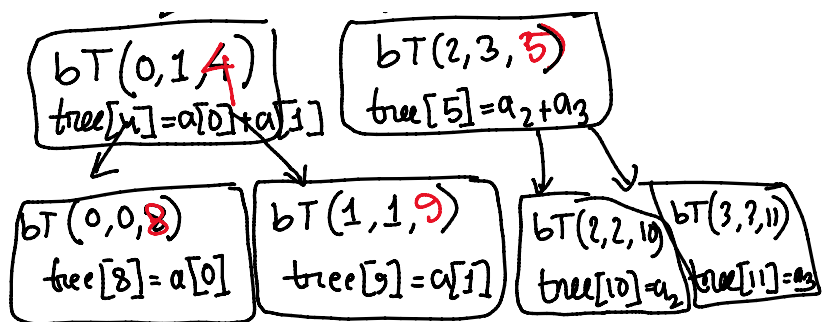
$N \leq R$

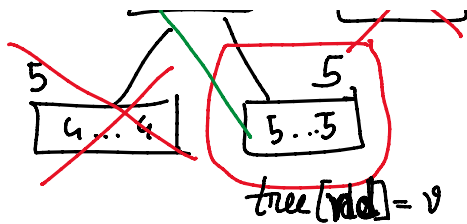
nd=1



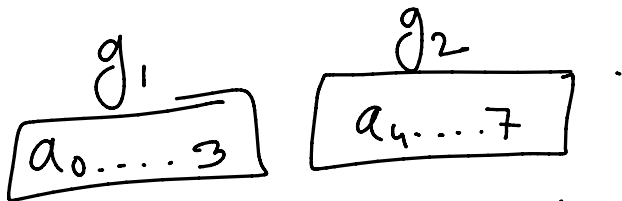
bT(0, 7, 1)







$$g_{12} = \text{gcd}(g_1, g_2) = a_{0 \dots 7}$$



1 2 3 4 5

~~gets~~ 1 1 2 2 4

range \rightarrow L, R $\phi(a[L])$

$\phi(a[L+1])$

$\phi(a[L+2])$

\vdots
 $\phi(a[R])$

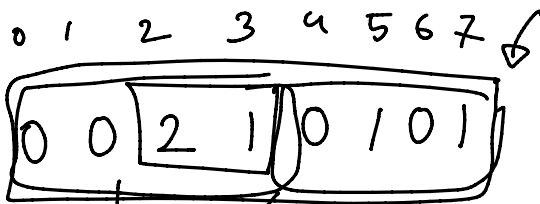
$$a[idx] = \phi(v)$$

set $\times \rightarrow$ 2
set $\checkmark \leftarrow$ 6

3 7 2 2 5

2 3

2 2 3 5 7



2 3 5 6 7

7
10

3 2 \rightarrow 2 3
0...99

[2 5]

100

