

r = []

from - decimal

while quotient > 0

quotient = decimal / base

remainder = decimal % base

r.append(remainder)

to - decimal

1 C 4 base 16

[1, C, 4]



convert to no.

9 729

$$\begin{array}{r} 5 \\ 2 \overline{) 11} \end{array} \text{ r } 1$$

$$\begin{array}{r} 2 \\ 2 \overline{) 6} \end{array} \text{ r } 1$$

$$\begin{array}{r} 4 \\ 8 \overline{) 33} \end{array} \text{ r } 1$$

$$\begin{array}{r} 8 \\ 8 \overline{) 4} \end{array}$$

$$\begin{array}{r} 2 \overline{) 11} \quad 1 \\ 2 \overline{) 5} \quad 1 \\ 2 \overline{) 2} \quad 0 \\ 1 \end{array}$$

4, 5

2, 1

mod

round 1s	1	2	3	4	n
round 2s	0	1	2	3	n-1
total	1	2	3	4	

$$n(n-1) \rightarrow n^2 - n$$

$$= n^2$$

mod

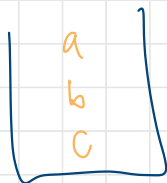
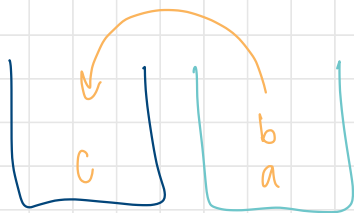
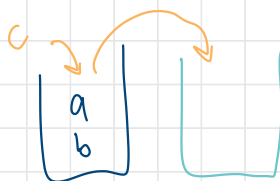
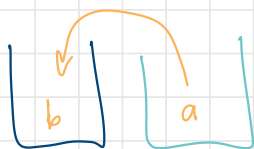
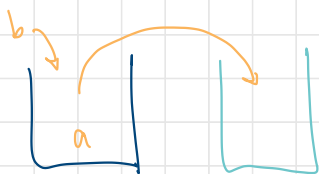
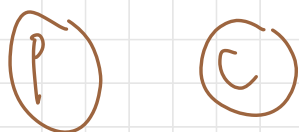
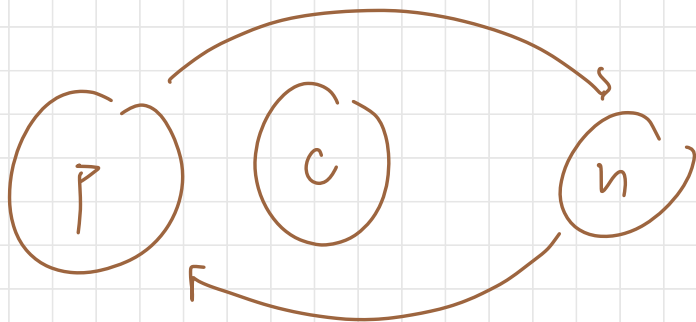
round 1s	1	2	3	n
round 2s	1x100	2x100	3x100	n x 100

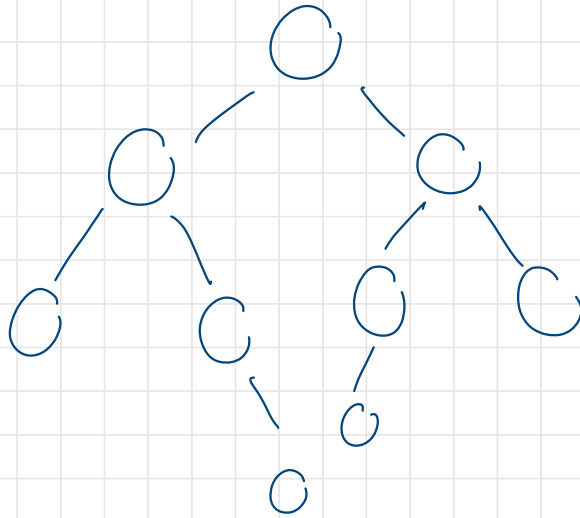
$$n(n \times 100) = n^2 \times 100n$$

n = 5 *****
 n = 4 ****
 n = 3 ***
 n = 2 **
 n = 1 *

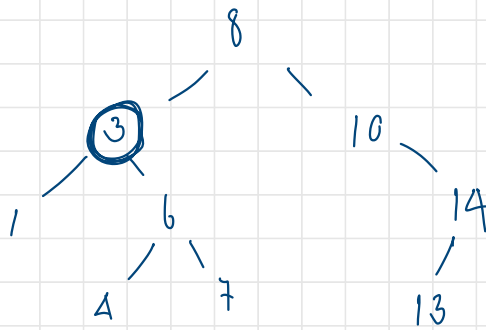
D = (1 2 3 5 4 6 7 8)
 Q =

D = (1 2 3 4 5 6 7 8)
 S =





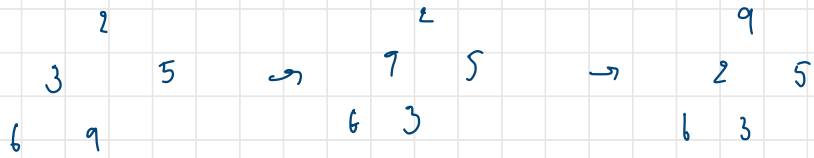
5 > 3 / 14 > 13



(5, 13)

current < min
current.right

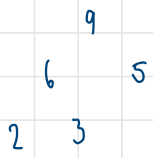
current > max
current.left



0 2 3 5 6 9

0 2 9 5 6 3

0 9 2 5 6 3



0 9 6 5 2 3