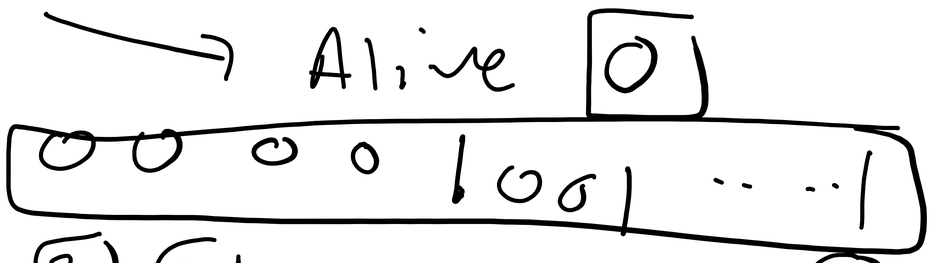
Min Coins to make the change ?

Coins = [1$, 7$, 10$]

Dead 1

Alive 0

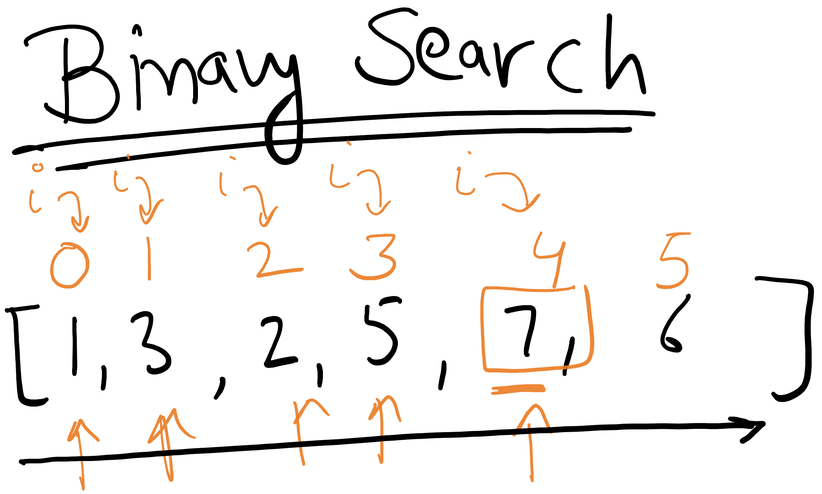


→ Decimal

(2) (2) . . . . . (2) $= 2^{10} = 1024$ unique states.

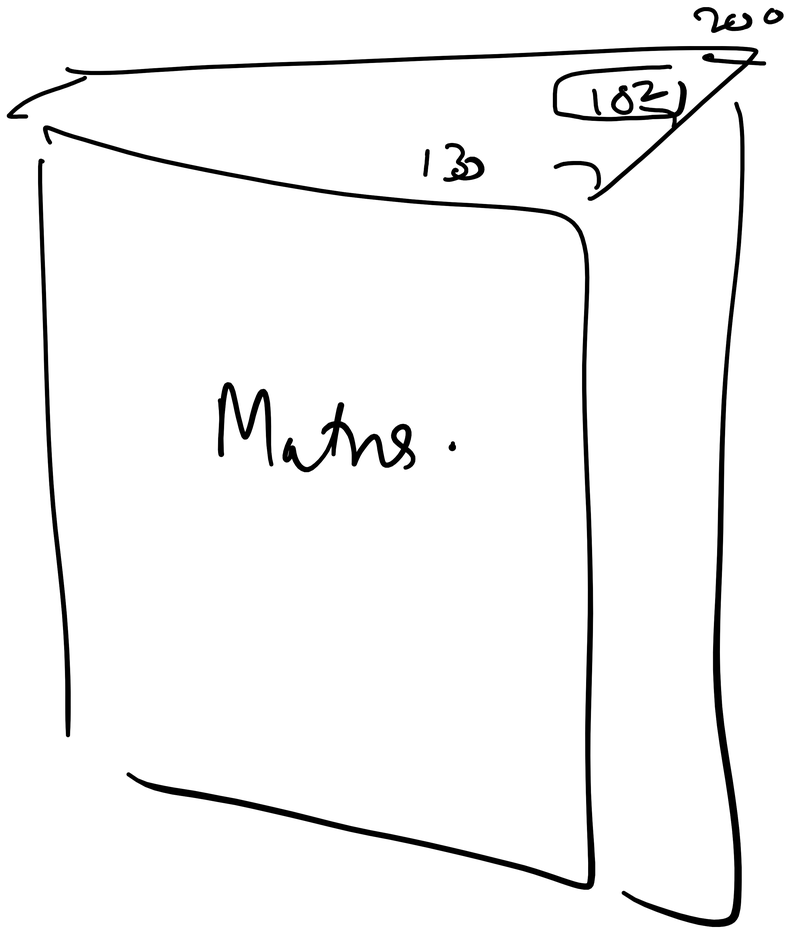
P1 P2 . . P5 . P8 P9 P10

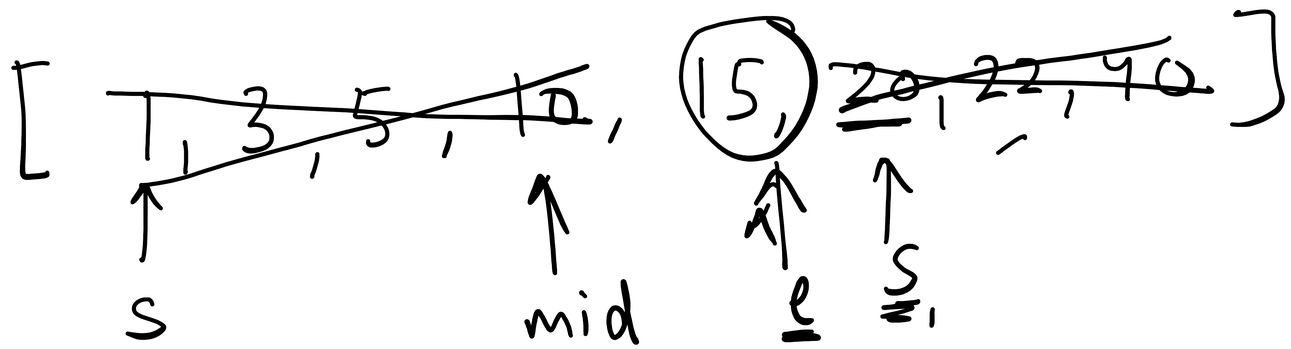
Binary Search



find 7

LinearSearch

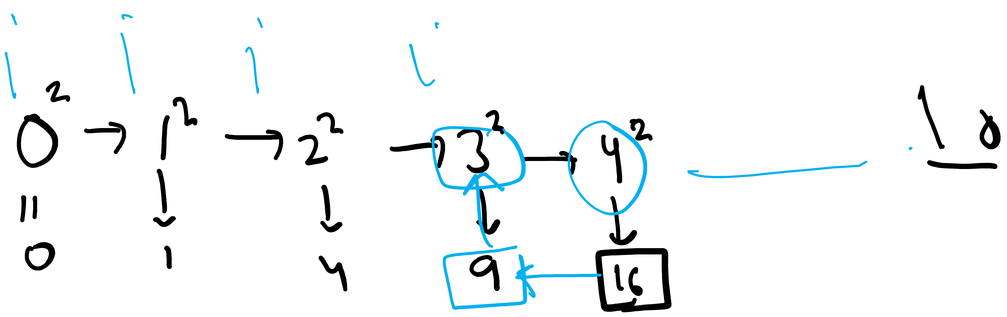

200
102
130
Maths.



$$mid = \frac{(s+e)}{2}$$

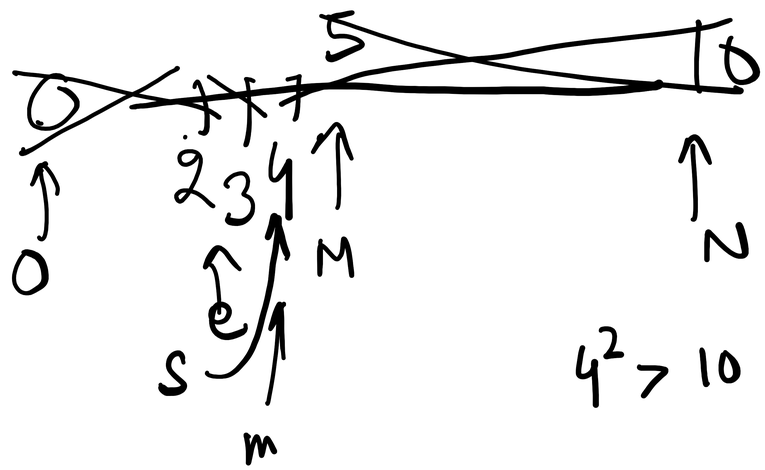
while(s<=e)

Linear Search : Square Root



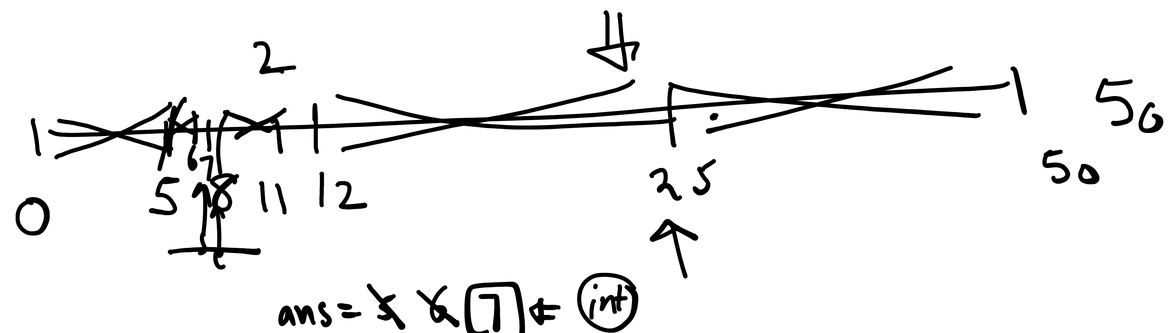
2^2 5^2 $2^2 \leq 10$

$\sqrt{10}$



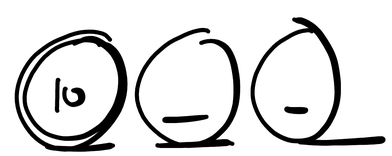
ans = 2 3

$4^2 > 10$



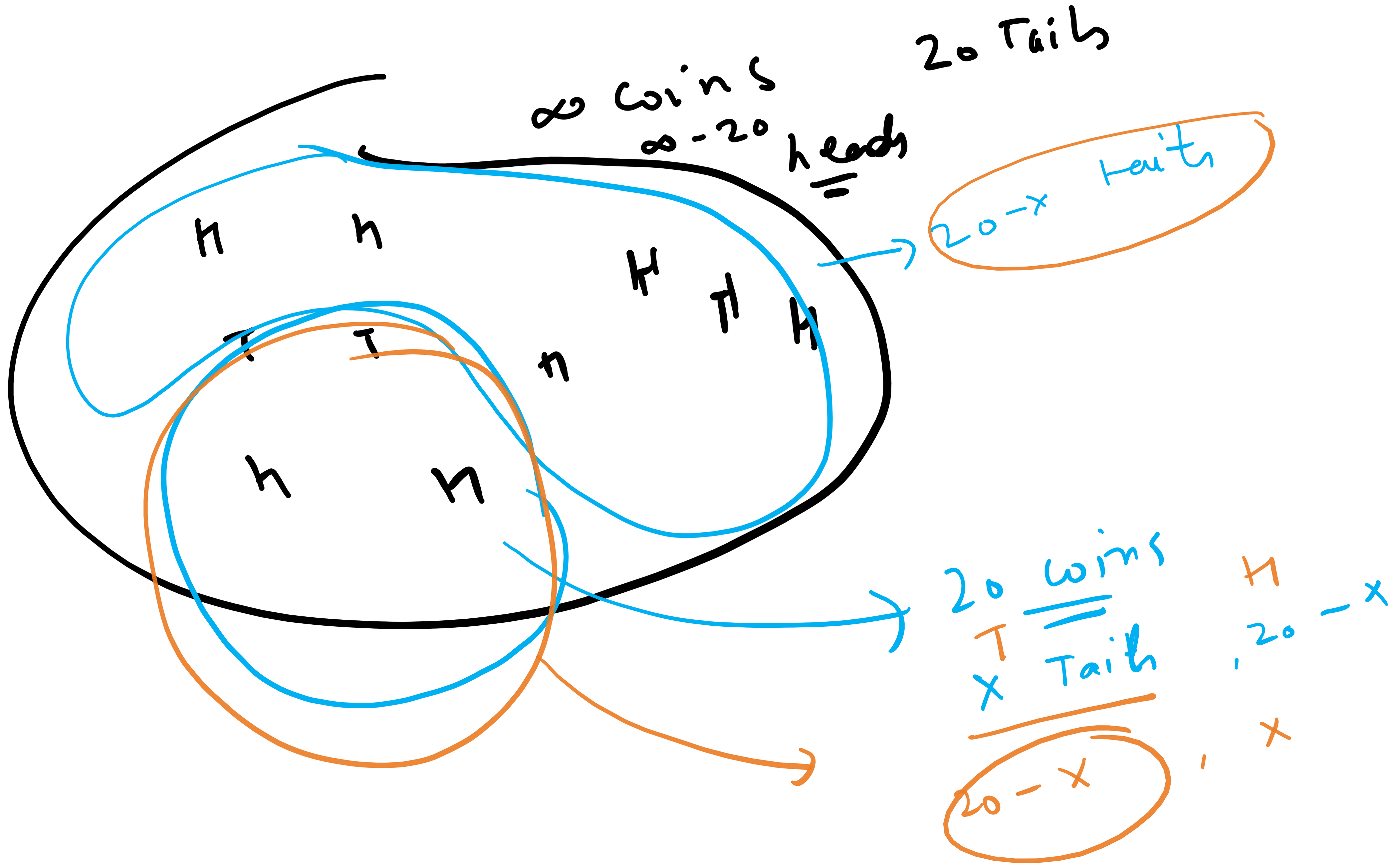
$O\left(\frac{\log N}{3,4,5,6} + P\right)$ P

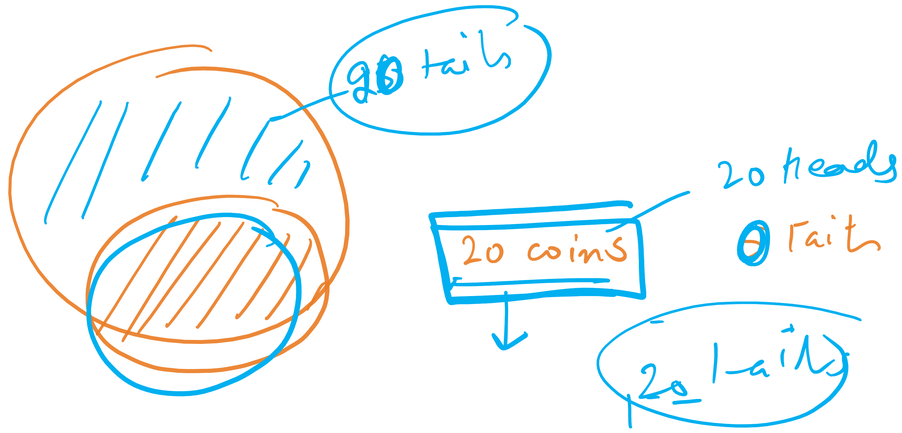
P



logN +

P log 10.


∞ coins
∞ - 20 heads
20 Tails
20-x tails
20 coins
T
x Tails
H
, 20 - x
20 - x
, x


20 tails
20 coins
20 heads
0 tails
20 tails