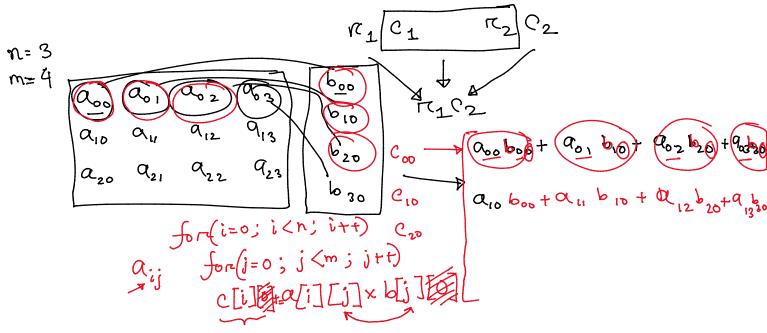
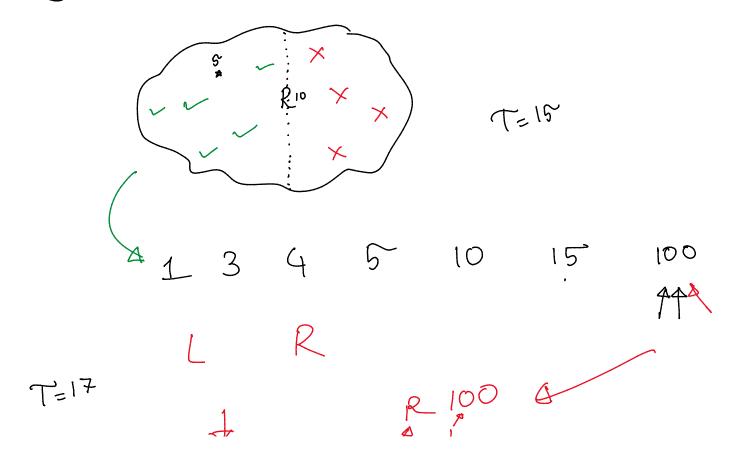
$$A = n \times m$$

$$B = m \times 1$$
 $AB = n \times 1$



Binary Search



1 = 1 1

L=O
$$R = n-1R$$

$$N \rightarrow \frac{N}{2}$$
while (L < R)
$$M = \frac{L+R}{2} = T$$
return true; $\frac{N}{2}k = 1$
else $f(ann[M] < T)$

$$L = M+1$$
else $R = M-1$

$$T = torn false;$$

return false;

sqnt()

$$\frac{L}{0} \frac{R}{37} \frac{600855}{(18.5)^{3}7}$$

$$0 18 (9)^{5} 37$$

$$0 9 (4.5)^{6} 37$$

$$4.5 9 (6.75)^{3}7$$

$$4.5 6.75 (6.1875)^{2} > 37$$

$$6.1875)^{2} > 37$$

R 100 B $N \rightarrow \frac{N}{2} \rightarrow \frac{N}{4} \rightarrow \frac{N}{8} \rightarrow \dots \rightarrow 1$

 $: N = 2^{k}$

: K= log(N)

9.5 6.75 6.1875) 2.5 6.1875 6.1875 6.1875 6.046875 6.1875 6.1171875 6.046875 6.1171875

200 (n)