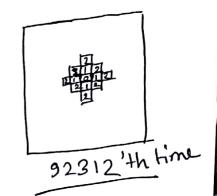
$$\frac{1}{0} \xrightarrow{\text{total}} 0 \xrightarrow{\text{total}} 1$$

$$1 \xrightarrow{\text{1}} 5$$

$$2 \xrightarrow{\text{1}} 13$$



$$1+ 4+8+12+16+ \dots +4n$$

$$= 1+4(1+2+3+ \dots +n)$$

$$= 1+4 \left\{ \frac{n^2+n}{2} \right\}$$

$$= 1+2n^2+2n$$

i, at 92312th time,.

$$2^{923139}1+(2\times92312)^{2}+2\times(92312)$$
= 1.704×10

D Complenity analysis for deletion operation in an array.

C++ Code's

for (int i= k; ixn; i++)
$$\neq$$
 (n-k)

 $a[i] = a[i+1];$ (n-k-)

$$f(n) = c_{1}(n-k) + c_{2}(n-k-1)$$

$$= c_{1}n - c_{1}k + c_{2}n - c_{2}k - c_{2}$$

$$= (c_{1} + c_{2})n - (c_{1} + c_{2})_{1}k - c_{2}$$

$$= c_{3}n - c_{4}k - c_{1}k$$

$$f(n) \propto n$$