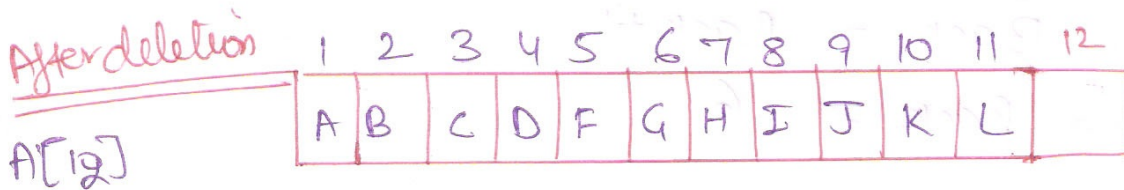
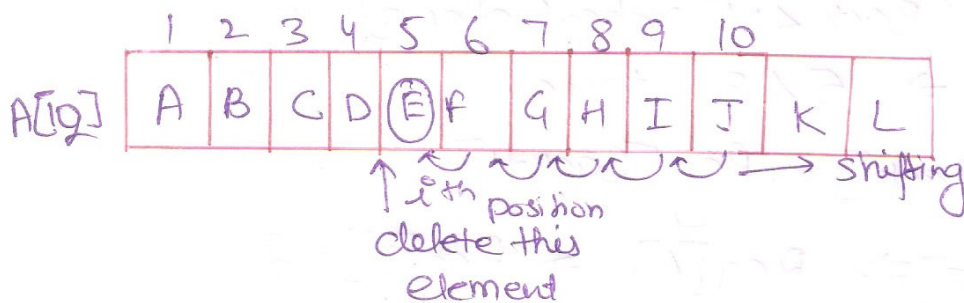


Deletion in an Array

It is a process of deleting a particular element from an Array. If an element to be deleted is at i th location then all elements from the $(i+1)$ th location will have to be shifted one step towards left.

→ So $(i+1)$ th element is copied to i th location and $(i+2)$ th to $(i+1)$ th location and so on.



Algorithm - In this algo. a value is being deleted from i th location of an array $Reg[N]$. Let us assume that last element in this array is at M th pos.

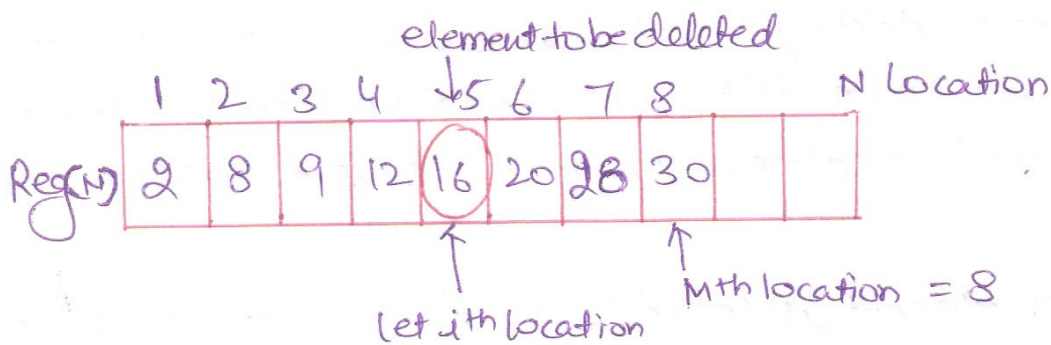
- Step:
1. $Back = 1$
 2. While ($Back < M$) repeat 3 & 4
 3. $Reg[Back] = Reg[Back+1]$
 4. $Back = Back + 1$
 5. $M = M - 1$
 6. End.



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- Step 1. $Back = i \Rightarrow Back = 5$
2. While ($Back < M$) repeat step 3 to 4
 $\Rightarrow 5 < 8$ true
3. $Reg[Back] = Reg[Back+1]$
 $Reg[5] \Rightarrow Reg[6] \Rightarrow Reg[5] = 20$
4. $Back = Back + 1$
 Now. $Back = 6$

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Again Step 3.
 $Reg[6] = Reg[6+1]$
 $= 28$

Step 4 $Back = Back + 1 \Rightarrow 7$

Again step 3 until $Back < M$

Step 5. $M = M - 1$
 $= 8 - 1 \Rightarrow 7$

Step 6 End.

