DS 12-8-2021

12 August 2021 08:54

Insert :-

A[ ] = {1, 2, 3, 4, 5};

Insert_Item = 8;

location/Pos = 6;

i, n = 5, j = n;

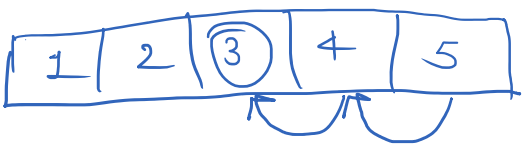
Delete :-

A[ ] = {1, 2, 3, 4, 5}

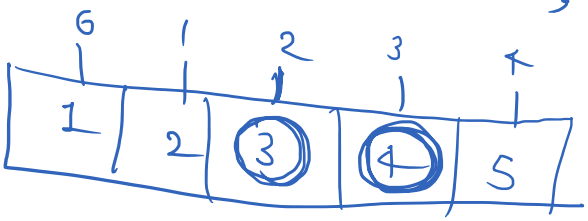
location/ Pos = 3;

n = 5, j, i;

1. j = location; j = 3;
2. while(j < n)
   {
   A[j - 1] = A[j];
   j = j + 1;
   }



n = n - 1 / n--;



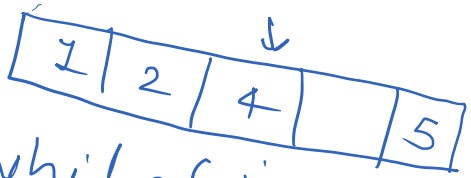
1st = while(j < n) 3 < 5
{

AD[3-1] = AD[3] = AD[2] = AD[3]

AD[2] = 4

j = j + 1 / 3 = 3 + 1 → j = 4

{



2nd = while(j < N) 4 < 5

{

AD[4-1] = AD[4] = AD[3] = AD[4]

AD[3] = 5

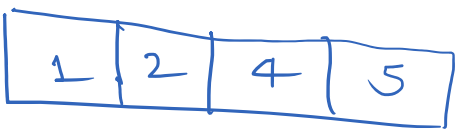
j = j + 1 / 4 = 4 + 1 → j = 5

}

3rd = while(j < N) 5 < 5

n = n - 1 5 = 5 - 1

n = 4



Search :-

AS[ ] = {1, 2, 3, 4, 5}

Search_Item = 4;

i, n = 5, j = 0;