

int i, j, small, pos;

for (i = 0; i < a.length - 1; i++)

{

small = a[i];

pos = i;

for (j = i + 1; j < a.length; j++)

{

if (a[j] < small)

{

small = a[j];

pos = j;

}

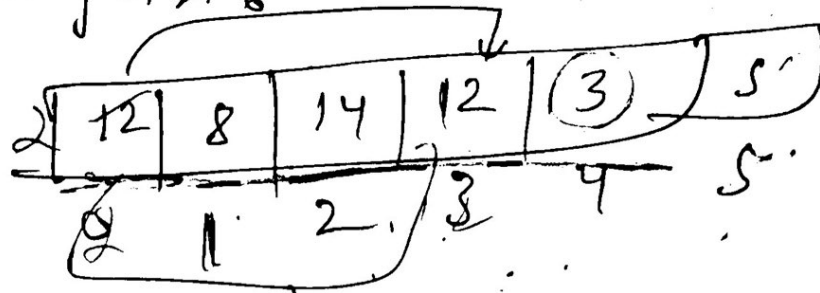
}

a[pos] = a[i];

a[i] = small;

}

Array 5/2, 6



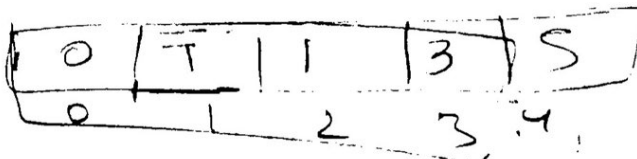
i small pos
0 12 0

1 (0) (2), 3, 4, 5

small pos
~~8~~ ~~4~~
~~2~~ 3
2 3

i small pos d
0 12 i 1-5
8

(5)



i 0

1-4

1

2

3

Insertion Sort :-

Array size :- 5

7	5	8	2	3
0	1	2	3	4

Pass (1) 5, 7, 8, 2, 3

Pass (2) 5, 7, 8, 2, 3

Pass (3) 2, 5, 7, 8, 3

Pass (4) 2, 3, 5, 7, 8

in i, j, t

for ($i = 1$; $i < a.length$; $i++$)

{
 $t = a[i]$;

$j = i - 1$;

 while ($j >= 0$ && $t < a[j]$)

$a[j+1] = a[j]$;

$j--$;

$$a[j+1] = t;$$

}

i	t	j
1	5	0
		-1

i	t	j
2	8	1

i	t	j
3	2	2
		1
		0

~~i = 1 5 1 a[0] = 7~~

~~a[1] = 7~~

i = 4