

$i = 1$        $i < 6$        $t$   
 $j = 1$ ;  
 $j > 0$       ~~ss~~  $a[1] < a[0]$        $f$   
 $i++$   
 $j = 2$ ;  
 $j > 0$       ~~ss~~  $a[2] < a[1]$        $f$   
 $i++$ ;  
 $j = 3$   
 $j > 0$       ~~ss~~  $a[3] < a[2]$        $f$   
 $i++$ ;  
 $4 < 6$   
 $4 > 0$       ~~ss~~  $a[4] < a[3]$

$a[t] = -8, 3, 6, 5$

$a[ ] = 12, 67, 2, 6, 19, 13$

$m a[ ]$ ;

$n = 6$ ;

if  $n = 1$        $i < 6$        $t$

$j = 1$   
 $j > 0$       ~~ss~~  $a[1] < a[0]$        $f$   
 $i++$

$j = 2$

$j > 0$       ~~ss~~  $a[2] < a[1]$        $t$

$temp = 2$

$a[ij] = 67$

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12, [2, 6, 7] 6, 19, 13

$a[2] = 67$ ,

$a[1] = 2$ ;

$j =$

$j = 1$   
 $j > 0$  &  $a[1] < a[0]$

$\text{out } b =$

$t = 2$ ,

$a[1] = a[0]$

$a[1] = 12$

$a[0] = 12$

$a[0] = 2$ ;

12, [2, 6, 7] 6, 19, 13

12, [2, 6, 7] 6, 19, 13

$1 = 2$  -

$j = 0$

$j > 0$  f

$j = 0$

$j = 0$

$j = 3$ ,

$3 < 6$  t

$j = 3$

$j > 3$  &  $a[3] < a[2]$  t

$a[3] = a[3-1]$

~~out~~  $t = a[3]$

$t = 6$

$a[3] = a[2]$

$a[2] = 6$ .

2, [1, 2, [6, 7] 19, 13

$j =$

$j = 2$

$j = 2$

$j > 0$  as  $a[2] < a[1]$

temp = 6

$a[1] = a[1-1]$

$a[2] = a[1]$

$a[2-1] = 6$

$a[1] = (6)$

$j--$

$j = 1$

$j > 0$  as  $a[1] < a[0]$  f

++i

$i = 4, 4 < 6$  t

$j = i$

$j > 0$  as  $a[4] < a[3]$

$t = 19$

$a[4] = a[3]$

$a[4] = 67$

$a[3] = 19$

$j--$

$j > 0$  as  $a[3] < a[2]$  f

++i,  $i = 5, 5 < 6$  t

$j > 0$  as  $a[5] < a[4]$

temp = 13

2, 6, 12, 19, 67, 13  
0 1 2 3 4 5

$a[5] = \del{67} 67$

$a[4] = 13$

$j--$

$j = 4$

$j > 0$  as  $a[4] < a[4-1]$

2, 6, 12, 19, 13, 67  
0 1 2 3 4 5

0 1 2 3 4 5

1, 45, 2, 89, 6, 34, 5

sorted

(i) 1, 2, 45, 6, 89, 34, 5

(ii) 1, 2, 6, 45, 89, 34, 5

1, 2, 6, 45, 34, 89, 5

(iii) 1, 2, 6, 45, 34, 89, 5

1, 2, 6, 34, 45, 89, 5

(iv) 1, 2, 6, 34, 45, 5, 89

1, 2, 6, 34, 5, 45, 89

1, 2, 6, 5, 34, 45, 89

1, 2, 5, 6, 34, 45, 89

(v)

notes  $i++$ ,  $i=2$

$j=0$   $2 < 5t$

$j=0$   $2 < 5 - 1 - 1$

$j=0$   $2 < 5 - 2$ ;  $j++$

$a[0] = 0$   $a[1] = 0$   $a[2] = 0$   $a[3] = 0$   $a[4] = 0$   $a[5] = 0$

$j=1$   $a[1] = 0$   $a[2] = 0$   $a[3] = 0$   $a[4] = 0$

$j=1$ ,  $j=2$

$a[2] = 0$   $a[3] = 0$

$t = 0$

$a[2] = 7$

$a[3] = 0$

$j++$ ,  $j=3$

$i++$ ,  $i=3$

$i < 2$   $f$

print  $\checkmark$

10, 4, 7, 0, 0

10, 4, 0, 7, 0, 0

0, 1, 2, 3, 4, 5

10, 4, 7, 0, 0, 0

0, 1, 2, 3, 4, 5

6 - 1 - 1

Passed

12, 6, 7, 2, 6, 19, 13

12, 2, 6, 7, 6, 19, 13

(i) 2, 12, 6, 7, 6, 19, 13

(ii) 2, 12, 6, 6, 7, 19, 13

2, 6, 12, 6, 7, 19, 13

(iii) 2, 6, 12, 19, 6, 7, 13

(iv) 2, 6, 12, 19, 13, 6, 7

2, 6, 12, 13, 19, 6, 7

$j > 0 \& a[4] < a[3]$

temp = 13

2, 6, 12, 19, 13, 67

$a[4] = 19$

$a[3] = 13$

2, 6, 12, 13, 19, 67

$j = 7$

$j > 0 \& a[9] < a[8]$

$i++ \& i = 5 < 5f$

2, 6, 12, 13, 19, 67

$a[0] = 10, 0, 10, 4, 0, 7, 0$

10, 0, 4, 0, 7, 0

int arr[]; n = 6;

$i = 0 \& i < 5t$

$j = 0 \& j < 5 - 0 - 1$

$j = 0 \& j < 4 + t$

if ( $a[0] == 0 \& a[1] != 0$ )

{

$t = arr[0];$

$a[0] = 10;$

10, 4, 0, 7, 0

$a[1] = 0;$

$j++ \& j = 1 \& 1 < 4t$

10, 4, 0, 0, 7, 0

$a[1] == 0 \& a[2] != 0$

1, 2, 3, 4, 5

$t = 0$

10, 4, 0, 7, 0, 0

$a[1] = 4$

$a[2] = 0$

$j++ \& j = 2 \& 2 < 4t$

if ( $a[2] == 0 \& a[3] != 0$ ) f

$j++ \& j = 3 \& 3 < 4t$

$a[3] == 0 \& a[4] != 0$        $a[4] = 0$

$t = 0$

$a[3] = 7 \& j++ \& 4 < 4f$