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*مطلوب

* name

إجابتك

* section

إجابتك

: complete the missing code

1- **Assume stack s1 and s2 are two stacks used in the implementation of a queue. the two main operations of a queue enqueue and dequeue operations?**

void enqueue(int x) {----------a----------}	**int dequeue()** {while (!s1.isEmpty()) {----------b----------} ----------c----------}

إجابتك

We need to sort the following array of integers [3 1 5 4 2 6 9 8] into descending -2 order: complete the following code of shell sort algorithm with the interval .sequence of n/2 to sort this array

```
void shellsort(int arr[])
        {
        int n = arr.length;
        for (int gap = n/2; gap > 0; gap /= 2)
        {for (int out = gap; out < n;out += 1)
        {int temp = arr[out];
         int in=out;
         while(----------1----------)
         {----------2----------
           ----------3----------
          }
          arr[in] = temp;}}}
```

إجابتك

Write the swap method in insertion sort

طلب الإذن بالتعديل

إجابتك

if an insertion sort of 10,000 elements, how many swaps will take for sorting all ?elements

إجابتك

Suppose the following array [6 2 7 3 5 1 4] is to be sorted in ascending order (a) using quicksort. Show what the array looks like just before the two halves are ?quick sorted. Use the last element (4) as the pivot

إجابتك

Modify the order Array insert() method, so that the insert() use a binary (b) ?search to find the position of the inserting item

```
public void insert(int value)
{int j;
----------1----------
for(int k=nElems; k>j; k--) {
a[k] = a[k-1];
a[j] = value;
nElems++;
}
```

إجابتك

Assume that class Queue is a queue of integers. complete the missing of (a) ?findMax() for the class Queue that returns maximum element of the queue

```
public int findMax ()
{----------1--------
for(j=1; j<nElems; j++)
{
if(----------2----------)
----------3----------}
return max;}
```

إجابتك

Write 3 applications for the stack and queue

إجابتك

?why is wraparound necessary for queues but not for stacks

إجابتك

?Write Big O of the following code

```
i = n;
        while(i > 0) {
                if(linearSearch(list, i))
                        System.out.println("Found");
                i--;  }
```

إجابتك

Order the following function by ascending order c3n8 , n3, 1000 +c2n8 , n log (b) n, loglog n, !n, √n

إجابتك

Complete this table (d)

algorithm	Best case of big o	Worst case of big o
Insertion	----------a----------	----------b----------
Quick	----------c----------	----------d----------
heap	----------e----------	----------f----------
merge	----------g----------	----------h----------

إجابتك

Select shell sort algorithm with the interval gap sequence of n/2 to sort this (e) :array {18, 32, 12, 5, 38, 33, 16, 2} into descending order Array after first gap

إجابتك

Select shell sort algorithm with the interval gap sequence of n/2 to sort this (e) array {18, 32, 12, 5, 38, 33, 16, 2} into descending order Array after second gap

إجابتك

For the Quick Sort algorithm (Ascending) with first element as a pivot: Trace the

algorithm on the array {89, 66, 58, 57, 52, 49, 100, 60} and answer the following ?questions: 1- Write down the entire array after finishing the first level

إجابتك

?Write down the entire array after finishing the second level -2

إجابتك

?What's the value of the THIRD selected pivot -3

إجابتك

We need to sort the following array of integers [3 1 5 4 2 6 9 8] into descending order: If insertion sort is chosen to sort this array, complete the contents of the array first and second step that the sort algorithm changes it. First step:---------a----------Second step:----------b

إجابتك

How many comparison operations how many shifts are performed in the ?sorting

إجابتك

?how many shifts are performed in the sorting

إجابتك

The following code shows a sorting method called Dumb-Sort. 1- What does (e) ?the array A look like after the first pass of dumb-Sort

```
public class sortingQuestion {
  static int[] A={2, 5, 7, 1, 8, 0};
  public static void main(String[] args) {
    dumbSort(A);
  }
  public void dumbSort(int[] A){
    for (int i=5; i >1; i--){
      for (int j=0; j<i; j++){
        if (A[j] < A[j+1]){
          int f = A[j];
```

```
A[j]=A[j+1];
A[j+1]=f;}}}}}
```

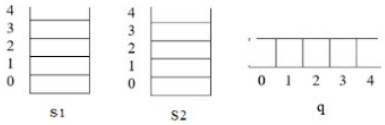
إجابتك

?What does the array A look like after the second pass of dumb-Sort -2

إجابتك

Complete the contents of stack s1, stack s2 and queue q after each operation (f) :in the next program

```
Queue q = new Queue();
stack s1=new stack(100);
stack s2=new stack(100);
s1.push(3);
s1.push(2);
s1.push(1);
while (!s1.isEmpty()) {
s2.push(s1.top);
s1.pop();
if (!s1.isEmpty())
s2.push(s1.top);
q.enQueue(s2.top); }
s1.push(q.front);
q.deQueue();
```



From index 0 to 4
S1----------a----------
S2----------b----------
q----------c----------

إجابتك

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