My today paper of cs301
Total 52 questions
4o mcqs
4 questions of 2 marks
4 questions of 3 marks
4 questions of 5 marks
Almost all Mcqs from the file final term solved mcqs with reference by mooaz
Subjective questions:
Questions of 2 marks
In the array representation of union what represents -1?
For smaller lists, linear insertion sort performs well, but for larger lists, quick sort is suitable to apply." Justify why?from mooaz file
If we want to delete the node from BST which has left and right child then which rotation is applied ?
Collision in hashing definition?
Question of 3 marks:
Algorithm union by weight?
One tree is given question is it heap or not if it is heap then write its type
Which data structure is best for priority queue?

Questions of 5 marks:
Some numbers are given and using those make BST?
One array is given we require to sort it using bubble sort and write only 2 iterations?
One tree is given which not the heap but after minimum changes it becomes max heap make it?
Make tree your are required to show only the final tree
Union(4,1) es trah se dia hua thay

ONE MORE PAPER :
0 mcqs.....mostly mcqs wr from past papers.
subjective was not so tough
the topics were collision, sibling, threaded binary tree, stack implementation, data structure, heap tree, hashing....
collision or threaded binary tree k short or long dono qs thy
a wrong code of binary search was given to make correction...
all the best
ONE MORE PAPER :
cs 301 final paper 16\07\2012
Ques 1: Write min heap after removal of root. 3 marks.
1 3 2 5 4 8 9 10 7

Ques 2: Write In order and preorder traversal. 3 marks

tree was small and easy.

Ques 3: show steps of merge sort: 5 marks.
11 12 13 21 22 23 31 33 41 42

Ques 4: correct the following code.
```
int isPresent(int *arr, int val, int N)
{ int low = 0;
int high = N - 1;
int mid;
while ( low >= high )
{ mid = ( low-high )/2;
```

```
if (arr[mid] == val)
return 1; // found!
else if (arr[mid] > val)
low = mid - 1;
else
high = mid + 1;
}
return 0; // not found
}
```

Ques 5: Correct the code: 5 marks

```
/* The inorder routine for threaded binary tree */
TreeNode* nextInorder(TreeNode* p){
if(p->RTH == thread)
return(p->R);
else {
p = p->R;
while(p->LTH == child)
p = p->L;
return p;
}
}
```

ques 6:
for telephone directry which is best linear or non-linear array. 2 marks
Ques 7:
how to cope with collision. 2 marks
ONE MORE:
16-9-2012 cs301 Paper

Mostly mcq's were from past papers

1 question about max-heap
1 question about min-heap
1 question about code of Find.
1 question about realtions, Transitivity, etc.
1 question about insert an node in a heap and reorgaznize as max-heap.
1 about Insertion sorting method.