

## Placement paper of Persistence - 1

### Persistence paper 2004

1. if there r n processes and each process waits p time in waiting state then cpu utilization

is:-

- a)  $n(1-p)$
- b)  $n*p$

2. a string of pages were given and no of page faults have to be found in LRU algorithm

3. there is a file server which provides locking for mutual exclusion . if any process locks the file and abruptly terminated this will result in indefinitely locking .The solution they found is to implement a timer for locking of file i.e. if time outs then server assumes that

file is indefinitely locked and terminate the process –

- a) this solution is perfect for mutual exclusion
- b) this will solve indefinite locking
- c) this will result in interleaving of file between processes
- d)

4.a critical section is –

ans a set of instruction which is shared by many processes

5.

### OTHERS

6. there was a question on automata

ans – the resultant string will have even no of c

7.CFG was given

S -> 1 S 1

S-> 0 S 0

S -> 1 1

S -> 0 0

Find out the string

8 One singly circular ordered list is there if M elements are ti be inserted what will be the complexity of time

- a)  $O(M*N)$
- b)  $O(M*(M+N))$
- c)  $O((M+N) * \log(M+N))$
- d)

9. find postfix and prefix of

$A + B * (C + D) / E + F$

11 from the following when 43 will not be found by binary search

(a series was given with last element 43 in each)

12. from 100 – 999 find the prob. Of getting 3 digit no with no 7 in any of its digit

- a)  $18/25$
- b)  $10/25$
- c)  $729/1000$
- d)

13. from the set {a,b,c,d,e,f} find no of arrangements for 3 alphabet with no data repeated

14. To save space which option is better

- a) write all join operation than select than project
- b) -----,-----than project---select
- c) -----,-----in b/w select and project
- d)

Employee = { e\_no , salary, fname, lname}

Works\_On = {e\_no, p\_no, hrs}

Project = {p\_no, p\_name}

15.select e\_no from Employee where salary = salary

- a) query invalid
- b)

16. select fname ,lname from Employee where e\_no in (select e\_no from works\_on

where p\_no =(select \* from project))

- a) name of Employee who works on all project
- b)
- c)
- d)

17. B tree is different from other

- a) has fixed index file size
- b) is better for queries like  $< <= > >=$
- c) searching will be easy
- d)

18.func(char \*s1,char \* s2)

```
{
char *t;
```

```
t=s1;
```

```
s1=s2;
```

```
s2=t;
```

```
}
```

```
void main()
```

```
{
```

```
char *s1="jack", *s2="jill";
```

```
func(s1,s2);
```

```
printf("%s %s ",s1,s2);
```

```
}
```

OUTPUT jack jill

19. void main()

```
{
```

```
int a[5]={1,2,3,4,5},i,j=2;
```

```
for (i=0;i<5;i++ )
```

```
func(j,a[i]);
```

```
for (i=0;i<5;i++ )
```

```
printf("%d",a[i]);
```

```
}
```

```
func(int j,int *a)
```

```
{
```

```
j=j+1;
```

```
a=a+j;
```

```
}
```

20 void main()

```
{
```

```
for (a=1;a<=100;a++)
```

```
for(b=a;b<=100;b++)
```

```
foo();
```

```
}
```

```
foo()
```

```
{ }
```

how many times foo will be called.

- a) 5050
- b) 1010
- c)
- d)

21.a hash table has a sie of 11 and data filled in its position like {3,5,7,9,6}

how many comparisons have to be made if data is not found in the list in worst case

- a) 2
- b) 6
- c) 11
- d)

22.packet switching is better than circuit switching coz

- a) it takes less time
- b) it takes less bandwidth
- c)
- d)

23.addition of two sparse matrix in 3 tuple notation ---time 30 min

24.a tree has 1000000 nodes than how many search r required to search a node

- a) 25
- b)
- c)
- d)

25.some objective on recursion

26 a prgm to arrange a string in order of occurrence of the character

i.e. the character which is coming max. in string should come first and so on

time –1hr.

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