Amazon Latest Technical Questions

1. Two tables emp(empid,name,deptid,sal) and dept(deptid,deptname) are there.write a query which displays empname,corresponding deptname also display those employee names who do not belong to any dept.

2. Display the employees whose salary is less than average salary.

3. what is the output of the program
```
main()
{
int c=5;
printf("%d
%d
%d",c,c<<2,c>> 2);
}
```

4.
```
main()
{
int a[8][10],c=0,i,j;
 for(i=0;i<10;
i++) for(j=0;
j<8;j++) a[j][i]=c++;
printf("%d",a[3][6]);
}
```

5. What is the wrong in this program
```
main()
{
char *p,*q;
p=(char *)malloc(25);
q=(char*) malloc(25);
strcpy(p,"amazon" );
strcpy(q,"hyd");
strcat(p,q);
printf("%s",p);
}
```

6. write prefix and post fix notation for (a+b)*c-(d+e)^(f-g)

7. what is the output of the program
```
main()
{
int i=5;
```

```
printf("%d",fun(fun(fun(fun( fun(i))))));
}
void fun(int i)
{ if(i%2) return (i+(7*4)-(5/2)+(2*2));
else return (i+(17/5)-(34/15)+(5/2));
}
```

8.When it is always true boolean fun

```
(node *p)
{
return ((p==null)||(p->next==null)|| (p->info<=p->next->info)&&( fun(p->next)));
}
```

a) when list is empty or has one node
b) when the ele are sorted in non decreasing order
c) when the ele are sorted in non increasing order

9.what is x here (x&&!(x&(x-1))==1)
a)x is always a prime
b)x is a power of 2
c)x is even d)x is odd

10 .What is the difference between deep copy and shallow copy

11.In java what is the difference between sleep() and wait() .

12. What happens when the parent process of a child process exits before the child ?

13. There are three persons A,B,C .A shots the target 6 times out of 7 shots .B shots 4 out of 5 shots .Then what is the probability of hitting the target twice when 2 persons are selected at random.

14.what is valid in cpp char *cp; const char *cpp; 1) cpp=cp; 2) cp=cpp;

15. write program to swap 2 variables without using extra memory.

16. write a shell command to find all java files present in nested directories.

17. There are 6 pairs of black socks and 6 pairs of white socks.What is the probability to pick a pair of black or white socks when 2 socks are selected randomly in darkness.

18.A string of alphanumeric is there.Find a string that starts with b and ends with 3 characters.