

NCR Placement Paper and Sample Paper

The pattern for the company NCR Teradata in HYD.

The exam was of 1:45 and consisted of C,C++,DataStructures, total 4(5 Marks)... but I couldn,t get thru....

Note that the code or the values may not be correct.... Just get the concept.

Predict the o/p... each 1 mark

1.
static int i;
{
i=10;
...
}
printf("%d",i);
Ans: 10

2.
#define func1(a) #a
#define func2(a,b,c) a##b##c
printf("%s",func1(func2(a,b,c)))
Ans: func2(a,b,c)

3.
const int* ptr;
int* ptr1;
int a=10;
const int p=20;
ptr=a;
ptr1=p;

4.
class a
virtual disp()
{ printf("In a");}
class b:public a
disp()
{ printf("In b");}
class c:public a
disp()
{ printf("In c");}
main()
{
a obj;
b objb;
c objc;
a=objb;
a.disp();

```
a=objc;  
a.disp();  
Ans: "In a" "In a"
```

```
5.  
a="str";  
char *b="new str";  
char *temp;  
malloc(sizeof(temp)+1,....  
strcpy(a,temp);  
malloc(sizeof(b)+1,....  
strcpy(temp,b);
```

```
6.  
int m,i=1,j=0,k=-1;  
m=k++||j++&& i++;  
printf("%d...",m,i,j,k);
```

```
7.  
class x  
{  
double b;  
double *l;  
float &c;  
}  
main()  
{  
double g=10.34;  
double *f=1.3;  
float k=9;  
x o;  
o.b=g;  
o.l=f;  
o.c=k;  
}
```

Ans: Compiler Error

Write C/C++ code for following:

For all the probs, u will have decide on wht DS to use.... and u,r program must be efficient...explain in detail... (5 Marks)

1. Find the Kth smallest element in a Binary Tree. (5 Marks)

2. Each worker does a job and is given a rating +ve,-ve or Zero.

Find the MaxSubSequenceSum for given no. of workers.

Ex: Workers=6; Ratings={1,0,-1,4,5,-3}

MaxSubSequenceSum=4+5=9 (5 Marks)

3. 1 to N ppl sitting in a circle. Each one passes a hot potato to the next person. After M passes the person holding the potato is eliminated. The last person remaining is winner. Find winner for given N,M.

Ex: N=5, M=2, Winner=4 (5 Marks)

4. Reverse a given Linked List. (5 Marks)

5. There is a file called KnowledgeBase.txt which contains some words. Given a sub-string u have to find all the words which match the word in the file.

Ex: file contains a, ant, and, dog, pen.

If I give "an" I should get o/p as "ant, and" (10 Marks)

6. Company employee have id,level,no. of sub-ordinates under him...

If a emp leaves then his sub-ordinates are assigned to any of the emp,s seniors...

Write four functions:

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