**ORACLE Job Placement Paper**

**Paper Type : Technical - C & C++**

This is the oracle paper held on July 13 2003 at NITK Surathkal. The test has 2 sections : 30 technical and 30 aptitude and 60 min time. Technical section: its very easy any one can answer 25 qns without preperation. some are

How compiler treats variables of recursive functions

What is orthogonal matrix?

Given two tables and asked 2 qns on those table ,

One is on join and another is on NOT IN

Given some qns on pointers( pretty easy)

Given five qns on data structures like , lifo, fifo

Qtn on primary key

How NULL in sql is treated?

Given a doubly linked list and asked r->left->right->data ans: r->data

Explain const char \*ptr and char \*const ptr

Remaining i didn`t remember

Technical

What is the output of the following program?<?xml:namespace prefix = o ns urn:schemas -microsoft-com office:office" "

#include<stdio.h>

#include<math.h>

void main( )

{

int a=5,b=7;

printf(“%d\n”,b\a);

}

A. 1.4

B. 1.0

C. 1

D. 0

What is the output of the following program listing?

#include<stdio.h>

void main ( )

{

int x,y:

y=5;

x=func(y++);

printf(“%s\n”,

(x==5)?”true”;”false”);

}

int func(int z)

{

if (z== 6)

return 5;

else

return 6;

}

A True

B false

C either a or b

D neither a nor b

What is the output of the following progarm?

#include<stdio.h>

main( )

{

int x,y=10;

x=4;

y=fact(x);

printf(“%d\n”,y);

}

unsigned int fact(int x)

{

return(x\*fact(x-1));

}

A. 24

B. 10

C. 4

D. none

Consider the following C program and chose collect answer

#include<stdio.h>

void main( )

{

inta[10],k;

for(k=0;k<10;k++)

{ a[k]=k;}

printf (“%d\n”,k);

}

A. value of k is undefined ; unpredictable answer

B. 10

C. program terminates with run time error

D. 0

Consider the prog and select answer

#include<stdio.h>

void main ( )

{

int k=4,j=0:

switch (k)

{

case 3: j=300;

case 4: j=400:

case 5: j=500;

}

printf (“%d\n”,j);

}

A. 300

B. 400

C. 500

D. 0

Consider the following statements:

Statement 1 A union is an object consisting of a sequence of named members of various types

Statement 2 A structure is a object that contains at different times, any one of the several members of various types

Statement 3: C is a compiled as well as an interpretted language

Statement 4: It is impossible to declare a structure or union containing an instance of itself

A. all the statements are correct

B. except 4 all are correct

C. statemnt 3 is only correct

D. statement 1,3 are incorrect either 2 or 4 is correct

consider the following program listing and select the output

#include<stdio.h>

main ( )

{

int a=010,sum=0,tracker:

for(tracker=0;tracker<=a;tracker++)

sum+=tracker;

printf(“ %d\n”,sum);}

A. 55

B. 36

C. 28

D. n

Spot the line numbers , that are valid according to the ANSI C standards?

Line 1: #include<stdio.h>

Line 2: void main()

Line 3: {

4 : int \*pia,ia;

5 :float \*pafa,fa;

6 :ia=100;

7 :fa=12.05;

8 :\*pfa=&ia;

9 :pfa=&ia;

10 :pia=pfa;

11 :fa=(float)\*pia;

12 :fa=ia;

13 :}

a. 8 and 9

b. 9 and 10

c. 8 and 10

d. 10 and 11

What is the o/p of the follow pgm?

#include<stdio.h>

main()

{

char char\_arr[5]=”ORACL”;

char c=’E’;

prinf(“%s\n”,strcat(char\_arr,c));

}

a: oracle

b. oracl

c. e

d. none

consider the following pgm listing

#include<stdio.h>

main()

{

int a[3];

int \*I;

a[0]=100;a[1]=200;a[2]=300;

I=a;

printf(“%d\n”, ++\*I);

printf(“%d\n”, \*++I);

printf(“%d\n”, (\*I)--);

printf(“%d\n”, \*I);

}

what is the o/p

a. 101,200,200,199

b. 200,201,201,100

c. 101,200,199,199

d. 200,300,200,100

which of the following correctly declares “My\_var” as a pointer to a function that returns an integer

a. int\*My\_Var();

b. int\*(My\_Var());

c. int(\*)My\_Var();

d. int(\*My\_Var)();

what is the memory structure employed by recursive functions in a C pgm?

a. B tree

b. Hash table

c. Circular list

d. Stack

Consider the follow pgm listing?

Line 1: #include<stdio.h>

2: void main()

3: {

4: int a=1;

5: const int c=2;

6: const int \*p1=&c;

7: const int\*p2=&a;

8: int \*p3=&c;

9: int\*p4=&a;

what are the lines that cause compilation errors?

a. 7

b. 8

c. 6 and 7

d. no errors

what will be the o/p

#include<stdio.h>

main()

{

inta[3];

int \*x;

int\*y;

a[0]=0;a[1]=1;a[2]=2;

x=a++;

y=a;

printf(“%d %d\n”, x,(++y));

}

a. 0,1

b. 1,1

c. error

d. 1,2

what is the procedure for swapping a,b(assume that a,b and tmp are of the same type?

a. tmp=a; a=b;b=temp;

b. a=a+b;b=a-b;a=a-b;

c. a=a-b;b=a+b;a=b-a;

d. all of the above