**PF ASSIGNMENT 03**

**Question:04** Ordinals. Write a program Ordinals.c that takes a command line argument N

and prints out the first N ordinals, followed by Hello.

#include<stdio.h>

main()

{

int i, e;

printf("Input For Print Hello: ");

scanf(" %d", &e);

i=1;

while(i<=e)

{

printf(" %d", i);

if(i%10==1 && i!=11 || i==1)

{

printf("st");

}

if(i%10==2 && i!=12 || i==2)

{

printf("nd");

}

if(i%10==3 && i!=13 || i==3)

{

printf("rd");

}

if(i%10>=4 || i%10==0)

{

printf("th");

}

if(i>=11 && i<=13)

{

printf("th");

}

printf(" Hello\n");

i++;

}

}

**Question:2** What’s your sign? Write a program Zodiac.c that takes two command line

integers M and D and prints the Zodiac sign corresponding to month M (1 =

January, 12 = December) and day D.

#include<stdio.h>

main()

{

int m, d;

printf("Enter your birth month ");

scanf(" %d", &m);

printf("Enter your Birth Date ");

scanf(" %d", &d);

if(m==1)

{

for(d; d<=19; d++)

{

printf("Your Sign is Capricon.");

break;

}

for(d; d>=20; d++)

{

printf("Your Sign is Aquarius.");

break;

}

}

if(m==2)

{

for(d; d<=17; d++)

{

printf("Your Sign is Aquarius.");

break;

}

for(d; d>=18; d++)

{

printf("Your Sign is Pisces.");

break;

}

}

if(m==3)

{

for(d; d<=19; d++)

{

printf("Your Sign is Pisces.");

break;

}

for(d; d>=20; d++)

{

printf("Your Sign is Aries.");

break;

}

}

if(m==4)

{

for(d; d<=19; d++)

{

printf("Your Sign is Aries.");

break;

}

for(d; d>=20; d++)

{

printf("Your Sign is Taurus.");

break;

}

}

if(m==5)

{

for(d; d<=20; d++)

{

printf("Your Sign is Taurus.");

break;

}

for(d; d>=21; d++)

{

printf("Your Sign is Gemini.");

break;

}

}

if(m==6)

{

for(d; d<=20; d++)

{

printf("Your Sign is Gemini.");

break;

}

for(d; d>=21; d++)

{

printf("Your Sign is Cancer.");

break;

}

}

if(m==7)

{

for(d; d<=22; d++)

{

printf("Your Sign is Cancer.");

break;

}

for(d; d>=23; d++)

{

printf("Your Sign is Leo.");

break;

}

}

if(m==8)

{

for(d; d<=22; d++)

{

printf("Your Sign is Leo.");

break;

}

for(d; d>=23; d++)

{

printf("Your Sign is Virgo.");

break;

}

}

if(m==9)

{

for(d; d<=22; d++)

{

printf("Your Sign is Virgo.");

break;

}

for(d; d>=23; d++)

{

printf("Your Sign is Libra.");

break;

}

}

if(m==10)

{

for(d; d<=22; d++)

{

printf("Your Sign is Libra.");

break;

}

for(d; d>=23; d++)

{

printf("Your Sign is Scorpio.");

break;

}

}

if(m==11)

{

for(d; d<=21; d++)

{

printf("Your Sign is Scorpio.");

break;

}

for(d; d>=22; d++)

{

printf("Your Sign is Sagittarius.");

break;

}

}

if(m==12)

{

for(d; d<=21; d++)

{

printf("Your Sign is Sagittarius.");

break;

}

for(d; d>=22; d++)

{

printf("Your sign is Capricon.");

break;

}

}

}

**Question:01** Distinct values. Write a program Distinct.c that takes three integer command

line parameters a, b, and c and prints out the number of distinct values (1, 2, or 3)

among a, b, and c.

#include<stdio.h>

main()

{

int x, y, z;

printf("Enter 3 numbers:");

scanf("%d,%d,%d",&x,&y,&z);

if (x==y && y==z)

{

printf("it has 1 distinct value=%d",x);

return 0;

}

if(x==y || y==z || z==y || y==x || z==x || x==z)

{

printf("It has 2 distinct value");

return 0;

}

else

printf("It has 3 distinct values");

}

**Question:03** Write a program Checkerboard.c that reads an integer, N from

the command line, and prints out a two dimensional N-by-N checkerboard

pattern with alternating spaces and asterisks, like the following 4-by-4 pattern.

#include<stdio.h>

main()

{

int i,n ,j=0;

printf("Enter Number Of Rows For Checkeboard:");

scanf("%d",&n);

for (i=1; i<=n; i++)

{

if(i%2==0)

{

printf(" ");

}

for (j=0;j<n;j++ )

{

printf(" \*");

}

printf("\n");

}

}

**Question:05** Write C program for each of the following pattern.

**5(A)**

#include<stdio.h>

main()

{

int i,j, n;

printf("Enter number of row:");

scanf("%d", &n);

for(i=1;i<=n;i++)

{

for(j=1;j<=i;j++)

{

printf(" %d", j);

}

printf("\n");

}

printf("\n Half Pyramid");

}

**5(B)**

#include<stdio.h>

main()

{

int i,j, n;

printf("Enter number of row:");

scanf("%d", &n);

for(i=n;i>=1;i--)

{

for(j=1;j<=i;j++)

{

printf(" %d", j);

}

printf("\n");

}

printf("\n Reverted Pyramid");

}

**5(D)**

#include <stdio.h>

int main()

{

int i, j, n, count = 0, count1 = 0, k = 0;

printf("Enter rows of pyramid:");

scanf("%d",&n);

for(i = 1; i <= n; ++i)

{

for(j = 1; j <= n-i; ++j)

{

printf(" ");

++count;

}

while(k != 2\*i-1)

{

if (count <= n-1)

{

printf("%d ", i+k);

++count;

}

else

{

++count1;

printf("%d ", (i+k-2\*count1));

}

++k;

}

count1 = count = k = 0;

printf("\n");

}

printf(" Full Pyramid");

return 0;

}

**5(F)**

#include<stdio.h>

int main()

{

int i,j,k,n;

printf("Enter number of rows:");

scanf("%d", &n);

for (k=1;k<=n;k++)

printf("%d ",k);

printf("\n");

for (i=n-1;i>=1;i--)

{

for(j=1;j<=i;j++)

{

if (j == 1 || j == i || i == n)

printf("%d ",j);

else

printf(" ");

}

printf(" \n");

}

printf("\nHollow Inverted Half Pyramid");

}

**5(E)**

#include<stdio.h>

main()

{

int n, i, j;

printf("Enter number of rows:");

scanf("%d", &n);

for(i=1;i<=n;i++)

{

for(j=i;j<n;j++)

{

printf(" ");

}

for(j=1;j<=(2\*i);j++)

{

if(i==n || j==1 || j==(2\*i-1))

printf(" %d", j);

else

printf(" ");

}

printf("\n");

}

printf("Hollow full Pyramid");

}

**5(C)**

#include<stdio.h>

main()

{

int n, i, j;

printf("Enter number of rows:");

scanf("%d", &n);

for(i=1;i<=n;i++)

{

for(j=1;j<=n;j++)

{

if(i==n)

printf(" %d", j);

else if(j==1 || j==i)

printf(" %d", j);

else

printf(" ");

}

printf("\n");

}

printf("\n Hollow half Pyrmid");

}

**The End**