1. 求左列到第n項的和

int main()

{

int n,i;

float s;

printf("Caculate 1+(1/2)+(1/6)+(1/12)+(1/20)+....=?\n");

printf("Please enter the number n :\n");

scanf("%d",&n);

//每項為 (1/n)\*(1/(n+1))

s=1;

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

{

s=s+(1.0/i)\*(1.0/(i+1));

}

printf("%f\n",s);

//------------------------------

// 因第一項非 1/(n-1)\*(1/n)，所以從第二項開始

s=1;

for(i=2;i<=n;i=i+1)

{

s=s+(1.0/(i-1))\*(1.0/i);

}

printf("%f\n",s);

//

printf("Caculate 1+(1/2)+(1/6)+(1/12)+(1/20)+....=?\n");

return 0;

}

1. 請以迴圈for 印出n層如下圖形，X：表空白，數字表第幾層

1:Z

2:XZ

3:XXZ

4:XXXZ

5:XXXXZ

int main()

{

int n,i,j;

scanf("%d",&n); // 輸入 n

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

{

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

{

printf("%s","\_");

}

printf("%s\n","Z");

}

printf("\n\n");

printf("第二種寫法\n");

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

{

printf("%\*s\n",i,"Z");

}

printf("\n\n");

return 0;

}

1. 求左列到第n項的和1+(2+3)+(3+4+5)+(4+5+6+7)+(5+6+7+8+9)+…..

int main()

{

int n,i,j,s;

printf("Caculate 1+(2+3)+(3+4+5)+(4+5+6+7)+(5+6+7+8+9)+…....=?\n");

printf("Please enter the number n :\n");

scanf("%d",&n);

/\* 第n項, 從n開始, 2n-1結束 \*/

s=0;

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

{

printf("Item:");

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

{

printf("%d ",j);

s=s+j;

}

printf("\n");

}

printf("The Sum is : %d",s);

return 0;

}