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Q1.(OJ31)

#include<iostream>

using namespace std;

int triangle[3];

int main()

{

int flag = 1;

while (flag == 1)

{

flag = 0;

for (int i = 0; i<3; i++) { cin >> triangle[i]; }

int a = triangle[1];

if (triangle[2]>triangle[1])

{

triangle[1] = triangle[2];

triangle[2] = a;

}

a = triangle[0];

if (triangle[1]>triangle[0])

{

triangle[0] = triangle[1];

triangle[1] = a;

}

a = triangle[1];

if (triangle[2]>triangle[1])

{

triangle[1] = triangle[2];

triangle[2] = a;

}

if (triangle[0] >= triangle[1] + triangle[2])

{

flag = 1;

cout << "N" << endl;

}

else

{

cout << "Y" << endl;

if (triangle[0] \* triangle[0] == (triangle[1] \* triangle[1] + triangle[2] \* triangle[2]))

cout << "Right triangle" << endl;

else if (triangle[0] == triangle[1] || triangle[1] == triangle[2])

{

if (triangle[0] == triangle[2])

cout << "Regular triangle" << endl;

else

cout << "Isosceles triangle" << endl;

}

}

}

return 0;

}

Q2.(OJ32)

#include<iostream>

using namespace std;

int main()

{

int n;

while(cin>>n)

{

int flag=1;

int count=0;

int a=1;//判斷是否輸入錯誤值

int arr[5]={0,0,0,0,0};

if (n<2||n>5)

{

cout<<"Format error, input invalid:\n";

flag=0;

}

else

{

for(int i=0;i<n;i++)

{

cin>>arr[i];

}

for(int j=0;j<n;j++)//判斷是否輸入錯誤值

{

if(arr[j]<0)

{

a=0;

flag=0;

}

}

}

if(a==0)//判斷是否輸入錯誤值

cout<<"Format error, restart out over:"<<endl;

while(flag==1)

{

for(int m=n-1;m>=0;m--)

{

cout<<arr[m];

}

cout<<endl;

flag=0;

}

}

}

Q3.(OJ33)

#include<iostream>

using namespace std;

int main()

{

int n;

while(cin>>n)

{

int k=3\*n-2;

int l=3\*n-2;

int line=4\*(n-1)+1;

for(int a=1;a<=n-1;a++)//(n-1)cout<<"\*"\*1,2,3....(n-1)

{

for(int a1=1;a1<=l-a;a1++)

{

cout<<" ";

}

for(int a2=1;a2<=a;a2++)

{

cout<<"\* ";

}

cout<<endl;

}

for(int b=1;b<=n-1;b++)//(n-1)cout<<"\*"\*(3n-2),3n-3,3n-4....

{

for(int b1=0;b1<l-k;b1++)

{

cout<<" ";

}

for(int b2=1;b2<=k;b2++)

{

cout<<"\* ";

}

k=k-1;

cout<<endl;

}

for(int c=1;c<=l-2\*n+1;c++)

{

cout<<" ";

}

for(int c=1;c<=2\*n-1;c++)

{

cout<<"\* ";

}

cout<<endl;

k=2\*n;

for(int d=n-1;d>=1;d--)//倒著的(n-1)cout<<"\*"\*(3n-2),3n-3,3n-4....

{

for(int d1=0;d1<l-k;d1++)

{

cout<<" ";

}

for(int d2=1;d2<=k;d2++)

{

cout<<"\* ";

}

cout<<endl;

k=k+1;

}

for(int e=n-1;e>=1;e--)//倒著的(n-1)cout<<"\*"\*1,2,3....(n-1)

{

for(int e1=1;e1<=l-e;e1++)

{

cout<<" ";

}

for(int e2=1;e2<=e;e2++)

{

cout<<"\* ";

}

cout<<endl;

}

}

return 0;

}

Q4.(OJ34)

#include<iostream>

using namespace std;

int main()

{

int n;

while(cin>>n)

{

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

{

int a,b,c,d,e,f,g,h;//商數

int a1,b1,c1,d1,e1,f1,g1,h1;//餘數

a=i/2;a1=i%2;

b=i/3;b1=i%3;

c=i/5;c1=i%5;

d=i/7;d1=i%7;

e=i/11;e1=i%11;

f=i/13;f1=i%13;

g=i/17;g1=i%17;

h=i/19;h1=i%19;

if((a==1||a1!=0)&&(b==1||b1!=0)&&(c==1||c1!=0)&&(d==1||d1!=0)&&(e==1||e1!=0)&&(f==1||f1!=0)&&(g==1||g1!=0)&&(h==1||h1!=0))

cout<<i<<endl;

}

}

return 0;

}

Q5.(OJ35)

#include<iostream>

using namespace std;

int main()

{

double n;

string s;

int flag=1;

while(flag==1)

{

cin>>n;

int m;

m=n;

if(m!=n)

{

flag=1;

continue;

}

flag=0;

int a,b,c,d;

a=m/1000;

b=(m%1000)/100;

c=(m%100)/10;

d=m%10;

cout<<"1000:"<<a<<endl;

cout<<"100:"<<b<<endl;

cout<<"10:"<<c<<endl;

cout<<"1:"<<d<<endl;

int check=0;

while(check==0)

{

cin>>s;

if(s=="Y"||s=="y")

{

check=1;

flag=0;

}

else if(s=="N"||s=="n")

{

flag=1;

check=1;

}

else

check=0;

}

}

return 0;

}