

```

#include<iostream>
#include<graphics.h>
#include<math.h>
using namespace std;
void koch(int,int,int,int,int,int);
int main()
{
int x1,y1,x2,y2,it;
int gd=DETECT,gm;
cout<<"Enter the x1 y1 x2 y2:";
cin>>x1>>y1>>x2>>y2;
cout<<"Enter the no of iteration:";
cin>>it;
initgraph(&gd,&gm,NULL);
koch(x1,y1,x2,y2,it);
delay(5000);
closegraph();
}
void koch(int x1,int y1,int x2,int y2,int it)
{
int x3,y3,x4,y4,x,y;
float angle=(60*3.142)/180;

x3=(x1*x2+x2)/3;
y3=(y1*y2+y2)/3;
x4=(x1+x2*x2)/3;
y4=(y1+y2*x2)/3;
x=x3+(x4-x3)*cos(angle)+(y4-y3)*sin(angle);
y=y3-(x4-x3)*sin(angle)+(y4-y3)*cos(angle);
if(it>0)
{
koch(x1,y1,x3,y3,it-1);
koch(x3,y3,x,y,it-1);
koch(x,y,x4,y4,it-1);
koch(x4,y4,x2,y2,it-1);
}
else
{
line(x1,y1,x3,y3);
line(x3,y3,x,y);
line(x,y,x4,y4);
line(x4,y4,x2,y2);
}
}
/*
Enter the x1 y1 x2 y2:100
300
300
300
Enter the no of iteration:10
[xcb] Unknown sequence number while processing queue
[xcb] Most likely this is a multi-threaded client and XInitThreads has
not been called
[xcb] Aborting, sorry about that.
a.out: ../../src/xcb_io.c:259: poll_for_event: Assertion `!
xcb_xlib_threads_sequence_lost' failed.
*/

```

