```
/*************************************************************************/
/*                                                                       */
/*  Christian Koch, et. al. algorithm                                    */
/*  modified by Darrell Cox 11/22/20 to support 3n+c sequence            */
/*                                                                       */
/*************************************************************************/
#include <stdio.h>
#include <math.h>
int start=33;
int c=5;
unsigned int iters=3;
int main () {
unsigned int i,evens,n;
double p;
FILE *Outfp;
Outfp = fopen("out6lk.dat","w");
p=start;
n=start;
evens=0;
for (i=0; i<iters; i++) {
   p=p*3.0;
   p=p*(1.0+(double)c/3.0/(double)n);
   n=3*n+c;
   while ((n&1)==0) {
      n=n/2;
      evens=evens+1;
      }
   }
for (i=0; i<evens; i++)
   p=p/2.0;
printf("p=%f \n",p);
fclose(Outfp);
return(0);
}
```