#include <stdlib.h>

#include <stdio.h>

#include <math.h>

#include <string.h>

#define SEED 35791246

main(int argc, char\* argv)

{

int niter=0;

double x,y;

int i,count=0;

double z;

double pi;

printf("Enter the number of iterations used to estimate pi: ");

scanf("%d",&niter);

srand(SEED);

count=0;

for ( i=0; i<=1) count++; }

x = (double)rand()/RAND\_MAX;

y = (double)rand()/RAND\_MAX;

z = x\*x+y\*y;

if (z<=1) count++;

}

pi=(double)count/niter\*4;

printf("# of trials= %d , estimate of pi is %g \n",niter,pi);

}