

```

deslat=2022;
res=round(1.5*sqrt(deslat));
its=1000000;
n=0;
lats=0;
while and(n<its,not(lats==deslat))
n=n+1;
r=sqrt(deslat/pi)*(1+0.02*(1-2*rand));
centx=rand;
centy=rand;
lats=0;
for x=-res:res
    for y=-res:res
if sqrt(x^2+y^2)<r
    lats=lats+1;
end
    end
end
centx

```

centx = 0.8606

centy

centy = 0.6520

lats

lats = 1993

r

r = 25.1206