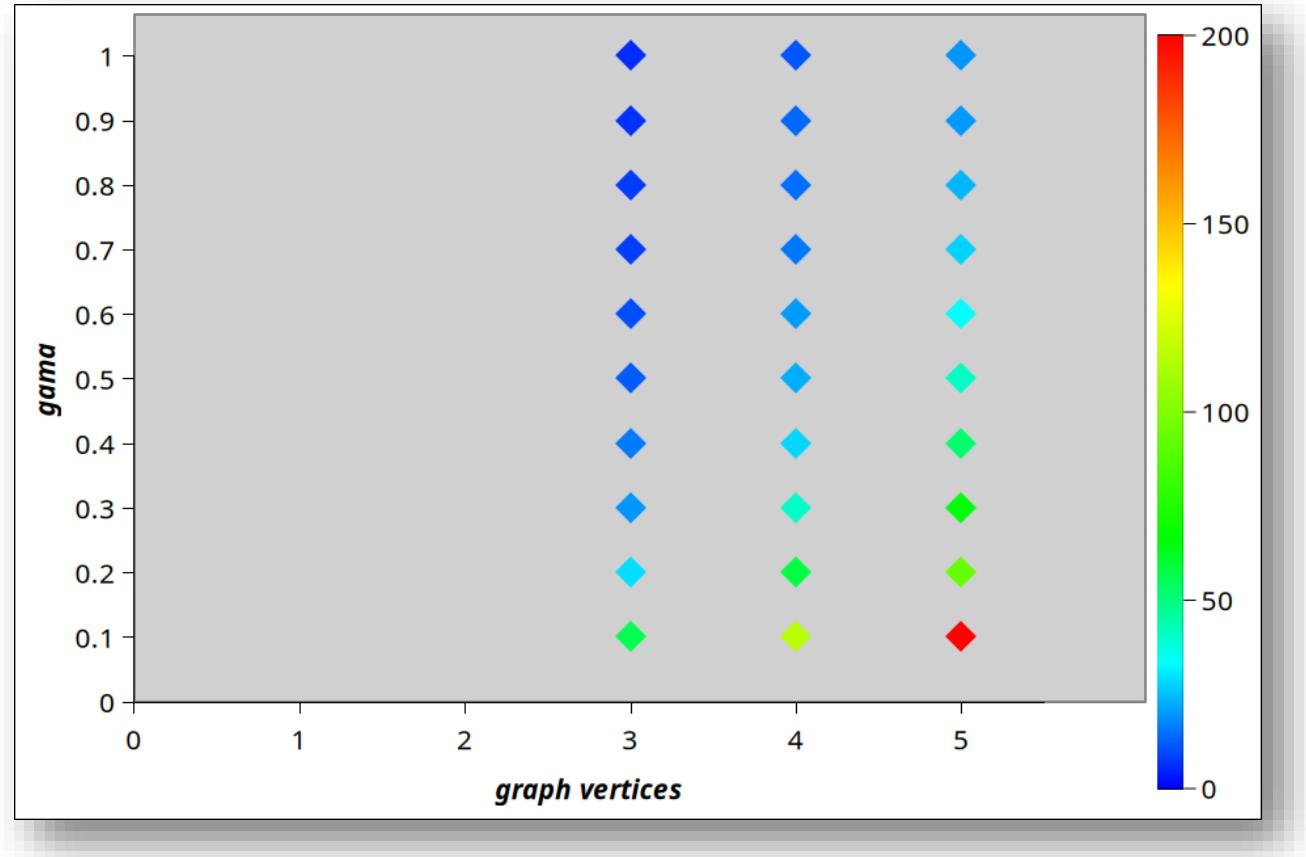


Fixation time and Probability of Cancer Cell in a Complete Graph



```
#include <iostream>
#include <stdlib.h>
#include <fstream>
using namespace std;
int main(){
    srand(time(NULL));
    int n=3;

    float w=0;
    int gama;
    int a[n],i;
    int r;
    int j;
    int sum=0;
    float l=0;

    ofstream out("detaa.gnumeric");
```

```

out<<"n"<<'\\t'<<"gama"<<'\\t'<<"fixation.p"<<'\\t'<<"fixation.t"<<'\\n';
for(gama=1;gama<=10;gama++) {
for(int z=1;z<=1000;z++) {
    for(i=0;i<=n;i++) {
        a[i]=0;
    }
    a[ (rand()%n) ]=1;
    j=0;
    for(i=0;i<=1000;i++) {
        r=(rand()%10)+1;
        if(r<=gama) {
            a[ (rand()%n) ]=a[ (rand()%n) ];
            j++;
            sum=0;
            for(int e=0;e<=n-1;e++) {

                sum=sum+a[e];
            }
            if(sum==n) {
                l++;
                w=w+j;
                break;
            }
            else{if(sum==0)break;}
        }
        else{
            j++;
            continue;
        }
    }
}

// 
out<<a[0]<<'\\t'<<a[1]<<'\\t'<<a[2]<<'\\t'<<sum<<'\\t'<<j<<'\\t'<<l<<'\\t'<<
w<<'\\t'<<z<<'\\n';
}
out<<n<<'\\t'<<gama/10.0<<'\\t'<<l/1000<<'\\t'<<w/l<<'\\n';
w=0;
l=0;
}
}

```