

CS 211

Calculating PI

```
#include <cstdlib>
#include <iostream>
#include <ctime>

using namespace std;

int main(int argc, char *argv[])
{
    double x,y;
    int count=0;
    srand ( time(NULL) );
    for(int i=0; i<1000000; i++){
        x=(float)rand()/RAND_MAX;
        y=(float)rand()/RAND_MAX;
        if(x*x+y*y<=1) count++;
    }
    cout<<"PI = "<<4*(float)count/1000000<<endl;

    system("PAUSE");
    return EXIT_SUCCESS;
}
```