

Functions Project

All right! We're gonna to make some more complicated code to take advantage of the power of functions.

Create another calculator, but let each operation be a different function. You need to include addition, subtraction, multiplication, division, as well as exponents (which will need a while loop, I know you can figure it out!) and generate random numbers (which I will explain below).

Remember, you need to define a function before it can be used, so define the functions like this:

```
using namespace std;

int add(int num1, int num2){}
int sub(int num1, int num2){}
int mul(int num1, int num2){}
int div(int num1, int num2){}
int exp(int num1, int num2){}
int rand(){}

int main(){
}
```

Okay, now we're going to talk about how to get a random number:

You need to add

```
#include <stdlib.h>
```

At the top of the file

You also need to "seed" your random number generator, which means giving your computer a base to generate numbers from. All that means is that you need to call `srand(0);` at the beginning of your program. Then, whenever you want to get a random number you call `rand();`, which returns a random number.