Threading Hello Problem 1 Calculate Power in C

Create a thread that can calculate the power of a number Giving an Equation like 2^3 and you should calculate it

Hints-> must split the string using (strtok) function

Create all arrays dynamic

Simple input

2^3

Simple output

Thread Id is 10233547

The result is 8

Problem 2

The below code runs, but executes with an incorrect output. Fix the code to make sure it runs correctly by adding a mutex lock.

```
#include<stdio.h>
#include<string.h>
#include<pthread.h>
#include<stdlib.h>
#include<unistd.h>
pthread_t tid[2];
int counter;
void* doSomeThing(void *arg)
{
    unsigned long i = 0;
    counter += 1;
    printf("\n Job %d started\n", counter);
    for(i=0; i<(0xFFFFFFFF);i++);</pre>
    printf("\n Job %d finished\n", counter);
```

```
return NULL;
}
int main(void)
{
    int i = 0;
    int err;
    while(i < 2)
    {
        err = pthread_create(&(tid[i]), NULL, &doSomeThing, NULL);
        if (err != 0)
            printf("\ncan't create thread :[%s]", strerror(err));
        i++;
    }
    pthread_join(tid[0], NULL);
    pthread_join(tid[1], NULL);
    return 0;
```