Algorithms Review for Job Interview

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- 1 12/20/2014, Saturday
- 2 12/21/2014, Sunday
 - 12/20/2014, Saturday
 - Website (github), program highlight, and chinese input environment all good now;
 - Will configure Linux Mint Java environment later, prefer emacs;
 - 145/168 done before new season review, begin to work on these questions from today.
 - Just got 4 easiest done: **149/168**

- excel sheet column title,

- min stack,
- compare version number, and
- intersection of two linked list,
- 12/21/2014, Sunday
- Only three got done today: 152/169
 - maximum gap
 - fraction to recurring decimal - majority element

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#include <pthread.h>

using namespace std;

- Don't feel my mind is clear today at all, will look into job searing instead, hopefully tomorrow I can solve more problems, and slightly complicated ones;

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

#define SIZE 8 // Size by SIZE matrices

int main(int argc, char* argv[]) { // sampel mark for 中文是可以的 pthread_t* thread; // pointer to a group of threads

```
if (argc!=2) {
    printf("Usage: %s number_of_threads\n",argv[0]);
    exit(-1);
}
num_thrd = atoi(argv[1]);
printf("num_thrd: %d\n", num_thrd);
init_matrix(A);
printf("\n");
init_matrix(B);
thread = (pthread_t*) malloc(num_thrd*sizeof(pthread_t));
for (i = 1; i < num_thrd; i++) {
    //printf("address i: %d\n", i);
    int rc = pthread_create(&thread[i], NULL, multiply, &idx[i]);
    if (rc != 0) {
        perror("Can't create thread");
        free(thread);
        exit(-1);
    }
}
// main thread works on slice 0
// so everybody is busy
// main thread does everything if threadd number is specified as 1
//int tmp = 0;
multiply((void*)(&(idx[0])));
// main thead waiting for other thread to complete
for (i = 2; i <= num_thrd; i++)</pre>
    pthread_join(thread[i-1], NULL);
printf("\n\n");
print_matrix(A);
printf("\n\t
                     * \n");
print_matrix(B);
printf("\n\n\t
                     = \n");
print_matrix(C);
printf("\n\n");
free(thread);
return 0;
```