Algorithms Review for Job Interview

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1 12/20/2014, Saturday
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2 我是中国人

12/20/2014, Saturday

- Pity that Chinese is not shown in github with org-mode
- Begin to review for job Interview
- test Chinese
- test code

2 我是中国人

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

```
#define SIZE 8 // Size by SIZE matrices
using namespace std;
int main(int argc, char* argv[]) {
   pthread_t* thread; // pointer to a group of threads
   int i;
   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++) {</pre>
        //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\n\t
                    * \n");
print_matrix(B);
printf("\n\n\t
                     = \n");
print_matrix(C);
printf("\n\n");
free(thread);
return 0;
```