

```
/*wait*/
void wait(int thread_id)
{
    pthread_mutex_lock(&step_mutex);
    while(thread_id != schedule[step] && step < schedule_size()-1)
    {
        fprintf(stderr, "Thread %d, sleeping...\n", thread_id);
        pthread_cond_wait(&condition, &step_mutex);
    }
    pthread_mutex_unlock(&step_mutex);
}
```

```
/*step and notify */
void step_and_notify()
{
    pthread_mutex_lock(&step_mutex);

    step++;

    pthread_cond_broadcast(&condition);
    pthread_mutex_unlock(&step_mutex);
}
```