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/* Header file for the simple circular queue example */
#ifndef __QUEUE_H__
#define __QUEUE_H__
typedef struct job_t {
     int number;
     char* name;
     int wait_or_run;
} job_t;
typedef struct _queue {
          int size;  /* maximum size of the queue */
job_t* buffer; /* queue buffer */
         int start; /* index to the start of the queue */
int end; /* index to the end of the queue */
int count; /* no. of elements in the queue */
} queue;
char* job_to_string(job_t job);
queue *queue_init(int n);
int queue_insert(queue *q, job_t* item);
job_t queue_delete(queue *q);
void queue_display(queue *q);
void queue_destroy(queue *q);
#endif
```