# W14-on site assignment

- Follow the assignment of week 12 again

- Let the queue size to be robust

space.h

```c
#ifndef __SPACE__
#define __SPACE__

#include "main.h"

#define NUM_BYTE_BUF            23
#define UNIT_ELEMENT_SIZE       32
```

space.c

```c
#include "space.h"

unsigned char buffer[UNIT_ELEMENT_SIZE*NUM_BYTE_BUF];

```

You can only use **our_malloc** to allocate for tQueueNode data structure

```c
typedef struct queue_node {
    int id;
    int score;
    int location;
    int data_type;
    struct queue_node *next;
    struct queue_node *prev;
}tQueueNode;

typedef struct {
    tQueueNode *queue_front;
    tQueueNode *queue_rear;
    int queue_count;
}tQueue;
```

- Design your program flow by yourselves
- You should also submit a PDF to briefly describe the designed program flow