ASSIGNMENT 1

COMP1511 LIVE STREAM 22T2

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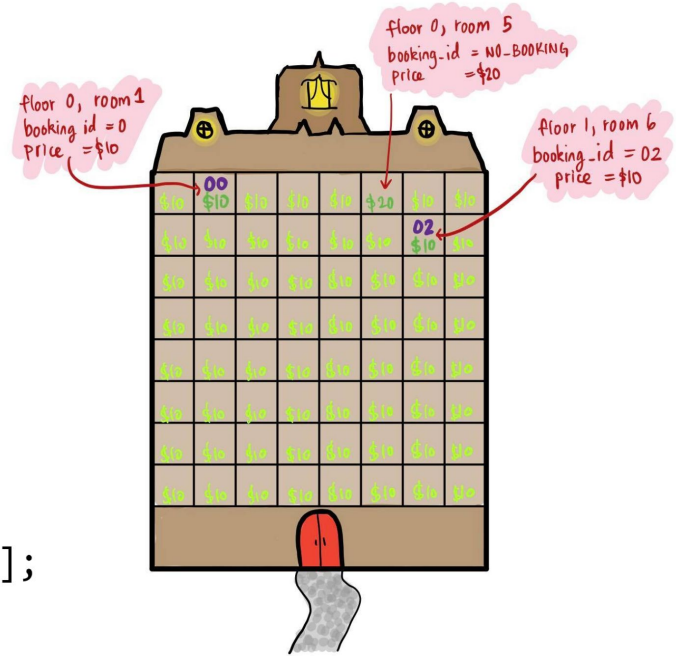
what's happening today?

- introduction to assignment 1 (cs hotel)
- navigating the specs
- getting started
- how to read autotests
- overview of the stages
- marking scheme and style
- assignment tips
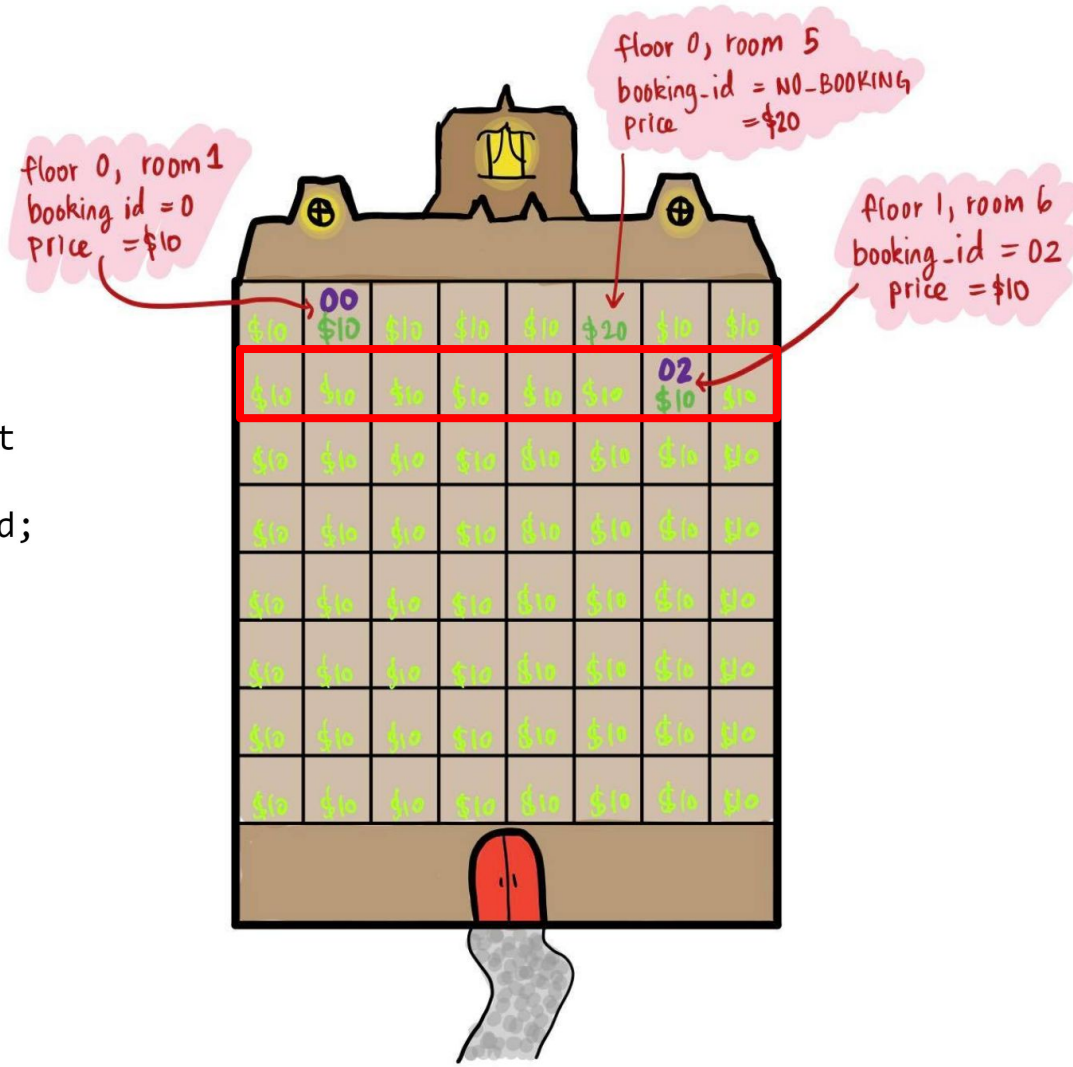- q&a

introduction to cs hotel

2D array of structs

- Hotel room: represented by `struct room`
- Floor of the hotel: 1D array of hotel rooms
- Entire hotel: 1D array of hotel floors
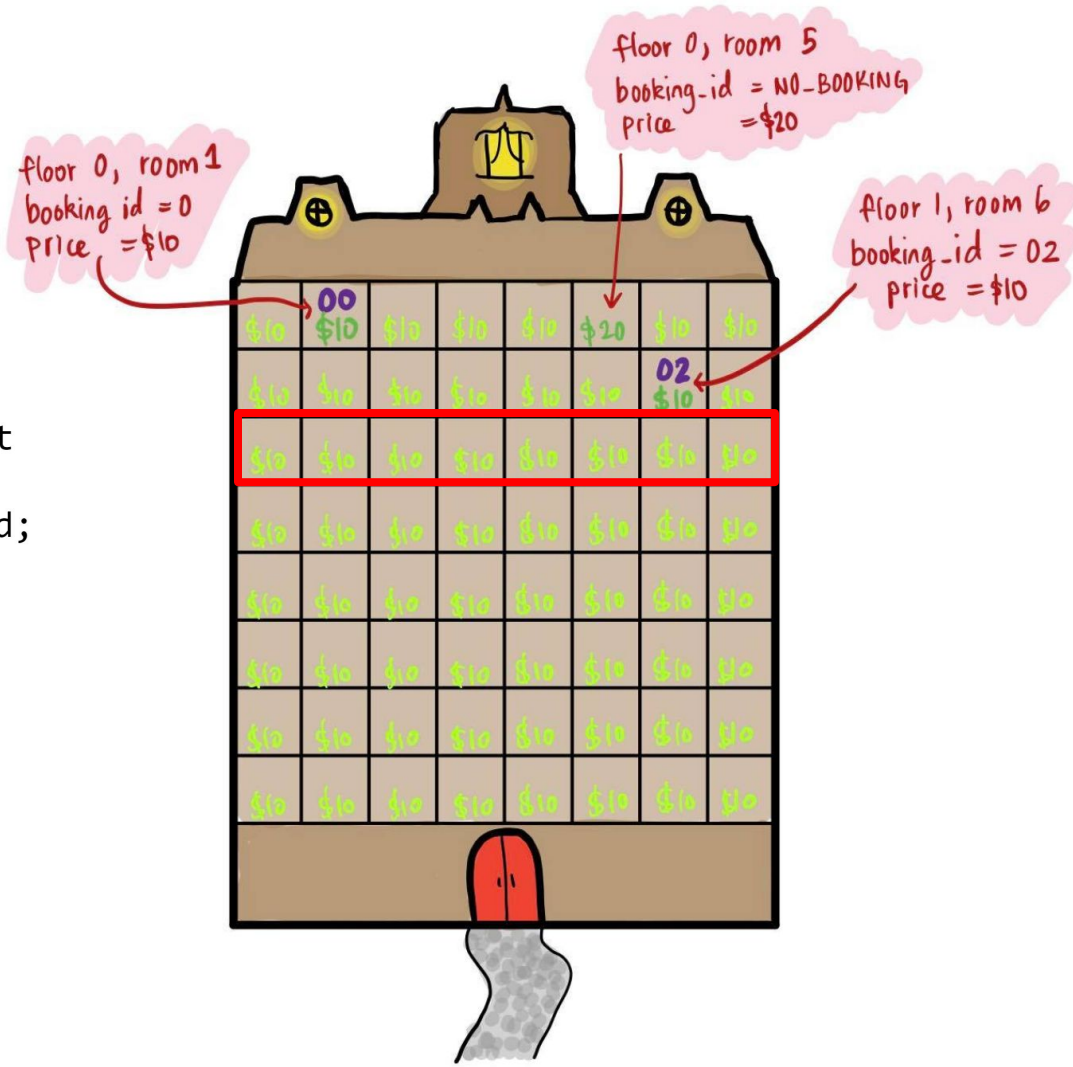- i.e. **a 2D array of hotel room structs**

```
struct room hotel[TOTAL_FLOORS][ROOMS_PER_FLOOR];
```

// Provided struct
struct room {
    int booking_id;
    int price;
};

floor 0, room 5
booking-id = NO-BOOKING
price = $20

floor 0, room 1
booking id = 0
price = $10

floor 1, room 6
booking-id = 02
price = $10

```
// Provided struct
struct room {
    int booking_id;
    int price;
};
```

// Provided struct
struct room {
    int booking_id;
    int price;
};

In the starter code…
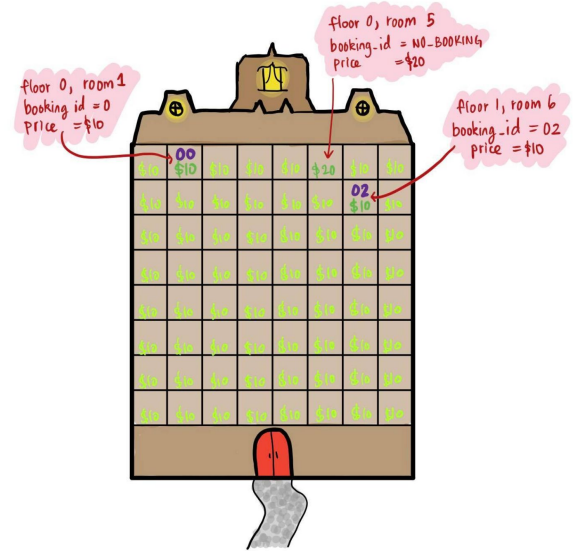
Initialising the 2D array of structs

```
#define TOTAL_FLOORS 8
#define ROOMS_PER_FLOOR 8

struct room hotel[TOTAL_FLOORS][ROOMS_PER_FLOOR];
```

Passing the array into a function

```
print_hotel(hotel);
```

How would you access the booking ID of the hotel room floor 0, room 1?

In the starter code...

Initialising the 2D array of structs

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#define TOTAL_FLOORS 8
#define ROOMS_PER_FLOOR 8

struct room hotel[TOTAL_FLOORS][ROOMS_PER_FLOOR];
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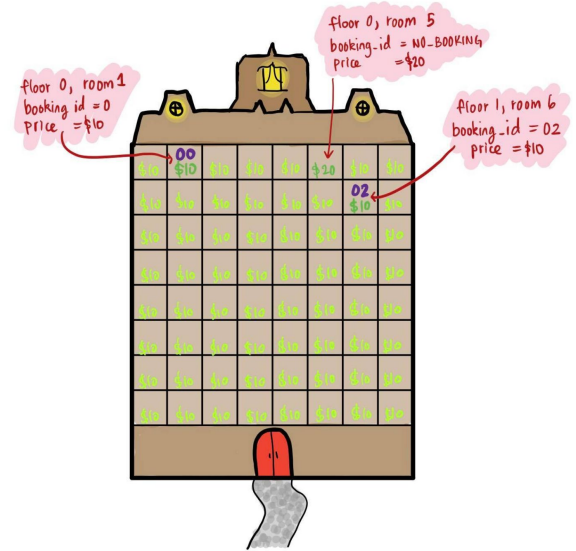
Passing the array into a function

```
print_hotel(hotel);
```

How would you access the booking ID of the hotel room floor 0, room 1?

```
hotel[0][1].booking_id
```

navigating the spec

**getting started
and how to read autotests**

overview of stages

marking scheme & style

assignment tips

- start early!
- autotest / submit often
- it's ok not to finish everything
- have good style from the start
- use lots of functions
- reach out if you need help: go to your labs, forum, help sessions

Q&A