Tute 3

COMP1511 22T3

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content

- while loops
- enums and structs
- variable names

1D while loops

easiest to look at

https://cgi.cse.unsw.edu.au/~cs1511/23T1/tut/03/questions

```
2
4
[...]
28
30
```

</div> <div>

D

```
5
4
3
2
1
0
```

E

```
5
```

2D while loops

easiest to look at

https://cgi.cse.unsw.edu.au/~cs1511/23T1/tut/03/questions

```c
int row = 0;
while (row < SIZE) {
    int col = 0;
    while (col < SIZE) {
        printf("X");
        col = col + 1;
    }
    printf("\n");
    row = row + 1;
}
```

```
XXXO
```

C

```
OXOO
XXXX
OXOO
OXOO
```

</div> <div>

B

```
OXOX
OXOX
OXOX
OXOX
```

D

enums and structs

<div class=columns> <div> in your groups, come up with a struct and accompanying enum(s) to describe a menu item at a resturant. </div> <div>

e.g

```
struct menu_item {
    double price
    enum course course
};

enum course {
    BREAKFAST,
    LUNCH,
    DINNER
};
```

structs

a way of grouping related information together

enums

for different options for what the value of something could be

variable names

In your groups, come up with at few variable names for each category (if will likely fall into multiple)

- valid
- invalid
- bad style
- good style

variable name rules

Valid C:

- can only contain letters, numbers, or underscores.
- must not start with a number.

Good style:

- use snake_case
- be descriptive or conventional (e.g `i` in loops)
- #defines in SHOUTING_SNAKE_CASE.