Tute 03 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/~cs1511/22T3/tut/03/que stions

2D while loops

```
void a(void) {
    int row = 0;
    while (row < SIZE) {
        int col = 0;
        while (col < SIZE) {
            if (row == col) {
                printf("0");
            } else {
                printf("X");
            }
            col++;
            }
            row++;
            printf("\n");
        }
}</pre>
```

```
void b(void) {
   int row = 0;
   while (row < SIZE) {
      int col = 0;
      while (col < SIZE) {
        if (col % 2 == 0) {
            printf("0");
      } else {
            printf("X");
      }
      col++;
    }
    row++;
    printf("\n");
}</pre>
```

```
void c(void) {
    int row = 0;
    while (row < SIZE) {
        int col = 0;
        while (col < SIZE) {
            if (col != 1 && row != 1) {
                 printf("0");
            } else {
                 printf("X");

            }
            col++;
        }
        row++;
        printf("\n");
    }
}</pre>
```

```
void d(void) {
    int row = 0;
    while (row < SIZE) {
        printf("X");
        int col = 1;
        while (col < 3) {
            if (row == 0 || row == 3) {
                printf("X");
        } else {
                printf("0");
        }
        col++;
    }
    printf("X");
    row++;
    printf("\n");
}</pre>
```

0X00 0XXX XXOX XXXX XX0X 0X00 0X00 XXX0 0X0X XXXX 0X0X X00X X00X OXOX 0X0X XXXX

enums and structs

```
struct person {
    int shoe_size;
    double height;
    char first_name_initial;
};
enum opal_card_type {
    ADULT,
    STUDENT,
    CONCESSION
};
```

variable names

In your groups come up with at least 5 variable names of which some are:

- valid
- invalid
- bad style
- good style