PA3

1.1) You are eligible to vote

1.2) The maximum of 10, 5, and 20 is 20

1.3) Invalid input

1.4) 0

2.1)

```c
#include <stdio.h>
int main(){

    int x = 10;

    // Conditional statement had = instead of ==
    if(x == 10){
        printf("x is equal to 10");
    }
    else {
        printf("x is not equal to 10");
    }

    return 0;
}
```

2.2)

```c
#include <stdio.h>
int main(){

    int x = 5;
// Semi colon should not be in if statement
    if(x == 5);{
        printf("x is equal to 5");
    }

    return 0;
}
```

2.3)

```c
#include <stdio.h>

int main(){
    char grade;

    printf("Enter your grade: ");
// The space before the %c is unnecessary
    scanf(" %c", &grade);

    switch (grade) {
// Should just read as just case 'A'
        case grade == 'A':
        printf("Excellent!\n");
        break;
        case 'B':
        printf("Good job!\n");
        break;
// Should just read as just case 'C'
        case grade == 'C':
        printf("Needs improvement.\n");
        break;
// Does not include the function for case 'D'
        case 'D':
        printf("You should really study more.\n");
        break;
        case 'F':
            printf("You have failed.\n");
            break;
        default:
```

```c
            printf("Invalid grade.\n");
        }


    return 0;
}
```