

AGUILAR, CHARLES

CMSC 21-1

Lecture2 > C as1.c > main(void)

```
1  #include <stdio.h>
2
3  /*
4  I prioritized the program being able to handle garbage input over
5  conciseness. I could've done %ld in scanf but that doesn't
6  prevent the user from inputting numbers that have more than 2 digits.
7  */
8
9  int main(void)
10 {
11     int number;
12     // keeps asking user for input until user inputs 2-digit number.
13     while(1){
14         printf("\nNUMBER REVERSER\n\nPlease enter a 2-digit number: ");
15         // non-numeric inputs break the program
16         if(scanf("%d", &number) != 1){
17             printf("Input contains non-numeric character.\nExiting program.\nPlease try again!");
18             break;
19         }
20         // prevents user from inputting numbers that aren't 2-digit numbers
21         else if(number > 99 || number < 10){
22             printf("Input should be a 2-digit number. Please try again!\n");
23         }
24         else{ // input is 2-digit number
25             int ones = number % 10;
26             int tens = number / 10;
27             printf("Reversed Number: %d%d", ones, tens);
28             break;
29         }
30     }
31     return 0;
32 }
33
```

1.

Lecture2 > C as2.c > main(void)

```
1  #include <stdio.h>
2
3  /*
4  I prioritized the program being able to handle garbage input over
5  conciseness. I could've done %ld in scanf but that doesn't
6  prevent the user from inputting numbers that have more than 3 digits.
7  */
8
9  int main(void)
10 {
11     int number;
12     // keeps asking user for input until user inputs 3-digit number.
13     while(1){
14         printf("\nNUMBER REVERSER\n\nPlease enter a 3-digit number: ");
15         // non-numeric inputs break the program
16         if(scanf("%d", &number) != 1){
17             printf("Input contains non-numeric character.\nExiting program.\nPlease try again!");
18             break;
19         }
20         // prevents user from inputting numbers that aren't 3-digit numbers
21         else if(number > 999 || number < 100){
22             printf("Input should be a 3-digit number. Please try again!\n");
23         }
24         else{ // input is a 3-digit number
25             int ones = number % 10;
26             int tens = (number % 100) / 10;
27             int hundreds = number / 100;
28             printf("Reversed Number: %d%d%d", ones, tens, hundreds);
29             break;
30         }
31     }
32     return 0;
33 }
34
```

2.

```
Lecture2 > C test.c > ...
1  #include <stdio.h>
2
3  int main(){
4
5      int i, j, k;
6
7      i = 3; j = 4; k = 5;
8      printf("%d", i < j || ++j < k);
9      printf("\n");
10
11     i = 7; j = 8; k = 9;
12     printf("%d", i - 7 && j++ < k);
13     printf("\n");
14
15     i = 7; j = 8; k = 9;
16     printf("%d", (i = j) || (j == k));
17     printf("%d %d %d", i, j, k);
18     printf("\n");
19
20     i = j = k = 1;
21     printf("%d", ++i || ++j && ++k);
22     printf("%d %d %d", i, j, k);
23     printf("\n");
24
25     return 0;
26 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21> cd "c:\Human-Files\
1
0
18 8 9
12 1 1
PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture2>
```

- 3.
- 1
 - 0
 - 18 8 9
 - 12 1 1