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CMSC21 - 1

1. Code:

```c
C as1.c > main()
1    #include<stdio.h>
2
3    // PROGRAM TO REVERSE A 2-DIGIT NUMBER
4
5        int main()
6        {
7            int num, rem;
8
9            printf("Enter the 2-digit number: ");
10           scanf("%d",&num);
11
12           /* PRINTING THE REVERSE BY PERFORMING REVERSE OPERATION WITH BOTH VARIABLE */
13           printf("Reversed Number: ");
14
15           rem = num % 10;              // using the modulus operator (%) to split the last digit of the number
16           printf("%d",rem);
17
18           num /= 10;                   // integer division to return the first digit
19           printf("%d",num);
20
21           return 0;
22       }
```

Output:

```
Enter the 2-digit number: 45
Reversed Number: 54
```

2. Code:

```c
C as2.c > main()
1    #include<stdio.h>
2
3    // PROGRAM TO REVERSE A 3-DIGIT NUMBER
4
5        int main()
6        {
7            int num, rem;
8
9            printf("Enter the 3-digit number: ");
10           scanf("%d",&num);
11
12           /* PRINTING THE REVERSE BY PERFORMING REVERSE OPERATION WITH BOTH VARIABLE */
13           printf("Reversed Number: ");
14
15           rem = num % 10;              // using the modulus operator (%) to obtain the last digit of the number
16           printf("%d",rem);
17
18           num /= 10;                   // reducing the number to 2-digits and assigning the result as new value for num variable
19           rem = num % 10;
20           printf ("%d",rem);
21
22           num /= 10;                   // integer division to return the first digit
23           printf("%d",num);
24
25           return 0;
26       }
```

Output:

```
Enter the 3-digit number: 345
Reversed Number: 543
```

3. Code:

```c
1    #include<stdio.h>
2
3    int main (void){
4        int i, j, k;
5
6        // A
7        i = 3; j = 4; k = 5;
8        printf("a) %d\n", i < j || ++j < k);
9
10       // B
11       i = 7; j = 8; k = 9;
12       printf("b) %d\n",i - 7 && j++ < k);
13
14       // C
15       i = 7; j = 8; k = 9;
16       printf("c) %d\n", (i = j) || (j == k));
17       printf("   %d %d %d\n", i, j, k);
18
19       // D
20       i = j = k = 1;
21       printf("d) %d\n", ++i || ++j && ++k);
22       printf("   %d %d %d\n", i, j, k);
23
24       return 0;
25   }
26
27
28
```

Output:

```
PS C:\Users\Acer> cd "c:\Users\Acer\Documents\" ; if ($?) { gcc as3.c -o as3 } ; if ($?) { .\as3 }
a) 1
b) 0
c) 1
   8 8 9
d) 1
   2 1 1
```