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CMSC 21

1.

```
#include <stdio.h>

int main(void)[

//Initialize the variables
int tens = 10;
int num, firstDigit, lastDigit, reversed;

printf("Enter a two-digit number: ");
scanf("%d", &num); //Prompt user for input

lastDigit = num % tens; //Get the last digit using modulo
firstDigit = num / tens; //Get the first digit using division

reversed = firstDigit += lastDigit *= tens; //Calculate for the reversed value

printf("%d", reversed);

return 0;
```

## Output:

```
C:\Users\user\Desktop>gcc -o a as1.c
C:\Users\user\Desktop>a
Enter a two-digit number: 25
52
```

2.

```
#include <stdio.h>

int main(void){

//Initialize the variables
int tens = 10;
int num, firstDigit, lastDigit, mid, reversed;

printf("Enter a three-digit number: ");
scanf("%d", &num);

lastDigit = num % tens;
firstDigit = num /(tens * tens);
mid = (num % (tens * tens)) - lastDigit;

reversed = firstDigit += mid += lastDigit *= tens *= tens;

printf("%d", reversed);

return 0;
}

//Calculate for the reversed value

return 0;
}
```

## Output:

```
C:\Users\user\Desktop>gcc -o b as2.c
C:\Users\user\Desktop>b
Enter a three-digit number: 123
321
```

- 3. a. 1
  - b. 0
  - c. 1 889
  - d. 1
  - 211