1.

```c
1    #include <stdio.h>
2    int main(void)
3    {
4    //identify the variables.
5        int ones ,tens;
6    //ask the user to enter their 2-digit number.
7        printf("Please enter a 2-digit number:");
8        scanf("%1d%1d", &tens, &ones);
9    //print to display the reverse of the 2-digit number.
10       printf("reverse of your 2-digit number is: %d%d\n", ones, tens);
11       return 0;
12   }
```

2.

```c
1    #include <stdio.h>
2    int main(void)
3    {
4    //identify the variables.
5        int ones ,tens, hundreds;
6    //ask the user to enter their 3-digit number.
7        printf("Please enter a 3-digit number:");
8        scanf("%1d%1d%1d", &hundreds, &tens, &ones);
9    //print to display the reverse of the 3-digit number.
10       printf("reverse of your 3-digit number is: %d%d%d", ones, tens, hundreds);
11       return 0;
12   }
13
```

3.

a) 1

b) 0

c) 18 8 9

d) 12 1 1