Homework guidelines:

1. To use the c file given to you, follow the next steps:
   - Open new solutions in your computer
   - Open a new empty c file in in each solution
   - Download the c files from the moodle
   - Copy the content of each c file that has been given to you to each c file in your solution accordingly
2. **Do not change the content of the print function's given to you.**
   we won't "spare" any printing mistakes
3. Write your code only in the main function given to you in the c file located in the moodle.
4. Do not delete the `#define _CRT_SECURE_NO_WARNINGS` in the c file.
5. Submit each question in its intended submission box in the right format as shown in class:
   <ex.num>_<q.num>_<ID.num>.c
   for example: **ex1_q1_123456789.c**

Question 1

given a natural number from the user, print all distinct divisors of it.

Examples: (note that the run of your code needs to be exactly the same)

for the number 10 –

```
Input: n = 10
Output: 1 2 5 10
```

for the number 100 –

```
Input: n = 100
Output: 1 2 4 5 10 20 25 50 100
```

for the number 125 –

```
Input: n = 125
Output: 1 5 25 125
```

Question 2

Write a program to reverse the digits of an integer.

Examples (note that the run of your code needs to be exactly the same)

for the number 123456 -

```
Enter a number to reverse: 123456
Reverse of number is: 654321
```

for the number 100007-

```
Enter a number to reverse: 100007
Reverse of number is: 700001
```

for the number 54897510-

```
Enter a number to reverse: 54897510
Reverse of number is: 1579845
```