Pattern2

Write a C program that reads in a positive number on height between 1 and 9, and prints a pattern according to height. For example, if the height is 9, then the following pattern will be printed. There is no need to check user input errors in your program.

```
1
232
34543
4567654
567898765
67890109876
7890123210987
890123454321098
90123456765432109
```

A sample program template is given below:

```
#include <stdio.h>
int main()
{
    /* Write your code here */
    return 0;
}
```

Sample input and output sessions are given below:

```
(1) Test Case 1:

Enter the 5

The patte
```

```
Enter the height:

The pattern is:

1
232
34543
```

34543 4567654 print left side, %10 is for \$67898765 when num>9, use for(i=0;j<=i;j++)

(2) Test Case 2:

7890123210987 890123454321098

```
#include <stdio.h>
int main()
  int height;
  int i,j,num;
  printf("Enter the height:\n");
  scanf("%d",&height);
  printf("The pattern is:\n");
  for(i=0;i<height;i++)
     num=i;
     for(j=0;j<height-i-1;j++)
        printf(" ");
     for(j=0;j<=i;j++)
        num++;
        printf("%d",(num)%10);
                             reduce value
                             of num first
     for(j=0;j< i;j++)
        printf("%d",(num-j)%10);
     printf("\n");
                        for next line
```