Right Shift Triangle Pattern

```
/*-------------------------Documentation Section-------------------------*/

/* In this section we will make a pattern as showing below. */

/*

*********
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***
**
*

*/

/*
Logic to create this pattern;
1. first of all make two int variable i and j.
2. now make a loop (outer loop ) which will act as controlling the position of the
row.
3. make i as the counter varaible of the outer loop.
4. make another loop inside the outer loop, this loop will act as controlling column
in each rows.
5. make j as the counter variable of the inner loop.
6. print one stare in inner loop
7. print a new line after closing the inner loop
*/

/*-----------------------------------------------
PseudoCode:

      counter i;
      counter j;

      for each row in i do:
            for each column in j do:
                  print *

            print newline;
-----------------------------------------------*/
```

```
/*-------------------------------------------------
For Current Pattern:

      counter i;
      counter j;

      Outer loop will run i<=10, (initialised from 1), i++ in each iteration.

            Inner loop will run     upto j>=i; (initialised from 10), j-- in each
iteration.
                  print * in inner loop.

            print \n in Outer loop.

-------------------------------------------------*/


/*=========================================================================*/

#include<stdio.h>


int main(){

      int i; // to hold the index number of row.
      int j; // to hold the index number of column.

      // Outer loop : this will control the rows
      // in each iteration it will change the row and also run the inner loop
      for(i=1; i<=10; i++){

            // Inner loop: this will control the column in each row.
            // in each iteration it will print * in columns upto i number
            // this loop will run in each iteration of Outer loop
            for(j=10; j>=i; j--){

                  printf("*"); // to print * on columns conrolled by inner loop
            }

            printf("\n"); // to change the row, controlled by outer loop
      }
}
```

Left Shift Triangle Pattern

```
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/* In this section we will make a pattern as showing below. */


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Logic to create this pattern;
      1. first of all make two int variable i and j.
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the row.
      3. make i as the counter varaible of the outer loop.
      4. make another loop inside the outer loop, this loop will act as controlling
column in each rows.
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      6. print one stare in inner loop
      7. print a new line after closing the inner loop
*/

/*-------------------------------------------------
      PseudoCode:

            counter i;
            counter j;

            for each row in i do:
                  for each column in j do:
                        print *

                  print newline;
-------------------------------------------------*/
```

```
/*-------------------------------------------------
For Current Pattern:

      counter i;
      counter j;

      Outer loop will run i<=10, (initialised from 1), i++ in each iteration.

            Inner loop will run     upto j<=i; (initialised from 10), j++ in each
iteration.
                  print * in inner loop.

            print \n in Outer loop.

-------------------------------------------------*/


#include<stdio.h>
#include<time.h>

int main(){

      int i; // i to hold the index number of row.
      int j; // j to hold the index number of column.

      // Outer loop : this will control the rows
      // in each iteration it will change the row and also run the inner loop
      for(i=1; i<=10; i++){

            // Inner loop: this will control the column in each row.
            // in each iteration it will print * in columns upto i number
            // this loop will run in each iteration of Outer loop
            for(j=1; j<=i; j++){

                  printf("*"); // to print * on columns conrolled by inner loop
            }
            printf("\n");  // to change the row, controlled by outer loop
      }

}
```

Right+Left Triangle Pattern

```
/*-------------------------Documentation Section--------------------------*/

/* In this section we will make a pattern as showing below. */

/*

*
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***
****
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*******
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*********
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*

*/


/*
      Logic to create this pattern;
      1. first of all make two int variable i and j.
      2. now make a loop (outer loop ) which will act as controlling the position of
the row.
      3. make i as the counter varaible of the outer loop.
      4. make another loop inside the outer loop, this loop will act as controlling
column in each rows.
      5. make j as the counter variable of the inner loop.
      6. print one stare in inner loop
      7. print a new line after closing the inner loop

      8. Repeat 2 to 7 steps to make another pattern in different order
*/
```

```
/*-------------------------------------------------
      PseudoCode:

            counter i;
            counter j;

            << For above part of the pattern >>
            for each row in i do:
                  for each column in j do:
                        print *

                  print newline;

            << for below part of the pattern >>
            for each row in i do:
                  for each column in j do:
                        print *

                  print newline

-------------------------------------------------*/

/*-------------------------------------------------
For Current Pattern:

      counter i;
      counter j;

      << for upper part of the pattern >>
      Outer loop will run i<=10, (initialised from 1), i++ in each iteration.

            Inner loop will run     upto j<=i; (initialised from 10), j++ in each
iteration.
                  print * in inner loop.

            print \n in Outer loop.

      << for below part of the pattern>>
      Outer loop will run i<=10, (initialised from 1), i++ in each iteration.

            Inner loop will run     upto j>=i; (initialised from 10), j-- in each
iteration.
                  print * in inner loop.

            print \n in Outer loop.

-------------------------------------------------*/
```

```c
#include<stdio.h>
#include<time.h>


// Note: to practice/run this program please see Left Shift Triangle Pattern and
Right Shift Triangle Pattern

int main(){

	int i; // i to hold the index number of row.
	int j; // j to hold the index number of column.

	// this nested loop will print the Left Shift Triangle Pattern
	for(i=1; i<=10; i++){
//		sleep(1);  // to pause the program for 1 second after changing the row.
		for(j=1; j<=i; j++){
//			sleep(1); // to pause the program for 1 second after changing the
column.
			printf("*");
		}
		printf("\n");
	}

	// This nested loop will print the Right Shift Triangle Pattern.
	for(i=1; i<=10; i++){

		for(j=10; j>=i; j--){
			printf("*");
		}
		printf("\n");
	}

}
```