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1. **n = 3**

```
*  
** printf("*");  
***
```

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

```
int main()  
{  
    int n , i , j ;  
    printf(" ENTER NO OF ROWS \n ");  
    scanf("%d" , &n);  
  
    for( i = 1 ; i <= n ; i++ )  
    {  
        for( j = 1;j <= i ; j++)  
        {  
            printf("*");  
        } // j  
        printf("\n");  
    } // i  
}
```

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2. *** **n = 3**
 ** **for (i = n ; i >= 1 ; i--)**
 *

n = 3 i = 3 to 1
i = 3 j = 1 to 3

j = 1 ***
j = 2 **
j = 3 *

i = 2 j = 1 to 2

j = 1 **
j = 2 *

i = 1 j = 1 to 1
j = 1 *

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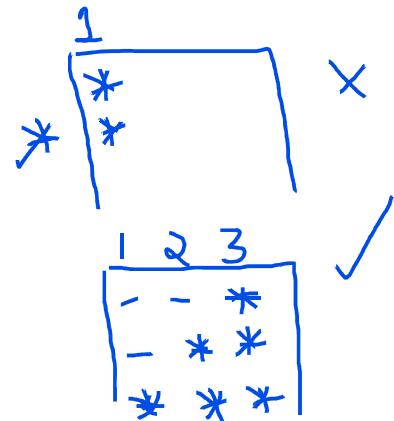
```
#include<stdio.h>
int main()
{
    int n , i , j;

    printf(" ENTER NO OF ROWS \n");
    scanf("%d" , &n);

    for( i = n ; i >= 1 ; i-- )
    {
        for( j = 1 ; j <= i ; j++)
        {
            printf("*" );
        }
        printf("\n");
    }
}
```

3. *
 **

N = 3



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

```
int main()  
{
```

```
    int i, j, k, n;
```

```
    printf(" ENTER NO. OF ROWS \n");
```

```
    scanf("%d", &n);
```

```
    for( i = 1 ; i <= n ; i++ )
```

```
{
```

```
        for( k = 1 ; k <= (n-i) ; k++ ) // for spaces
```

```
            } // k (imp)
```

```
        for( j = 1 ; j <= i ; j++ )
```

```
        {              printf("*");
```

```
            } // j
```

```
        printf("\n");
```

```
    } // i
```

```
}
```

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$n = 3$ For $i = 1 \text{ to } 3$

$i = 1 \quad k = 1 \text{ to } 2$

$k = 1 \quad \text{Space}$

$k = 2 \quad \text{Space}$

$j = 1 \text{ to } 1 \quad *$

$j = 1$

$i = 2 \quad k = 1 \text{ to } 1$

$k = 1 \quad \text{Space}$

$j = 1 \text{ to } 2 \quad *$

$j = 1 \quad *$

$j = 2 \quad *$

$i = 3 \quad k = 1 \text{ to } 0x$

$j = 1 \text{ to } 3$

$j = 1 \quad *$

$j = 2 \quad *$

$j = 3 \quad *$

$i = 4 \quad k = 1 \text{ to } 0x$

$j = 1 \quad *$

$j = 2 \quad *$

$j = 3 \quad *$

$j = 4 \quad *$

$i = 5 \quad k = 1 \text{ to } 0x$

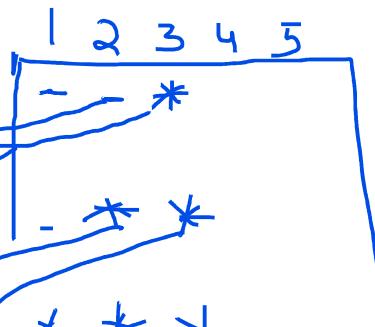
$j = 1 \quad *$

$j = 2 \quad *$

$j = 3 \quad *$

$j = 4 \quad *$

$j = 5 \quad *$



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4. N = 3

* * *
* * for(i=n, i>=1, i--)

*

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

```
int main()
```

```
{
```

```
    int i, j, k, n;
```

```
    printf(" ENTER NO. OF ROWS \n " );  
    scanf("%d", &n);
```

```
    for( i = n ; i >= 1 ; i-- )
```

```
{
```

```
        for( k = 1 ; k <= (n-i) ; k++ ) // for  
            spaces
```

```
{
```

```
        printf(" ");
```

```
} // k (imp)
```

```
    for( j = 1 ; j <= i ; j++ )
```

```
{  
    printf("*");  
} // j  
printf("\n");  
} // i  
}
```

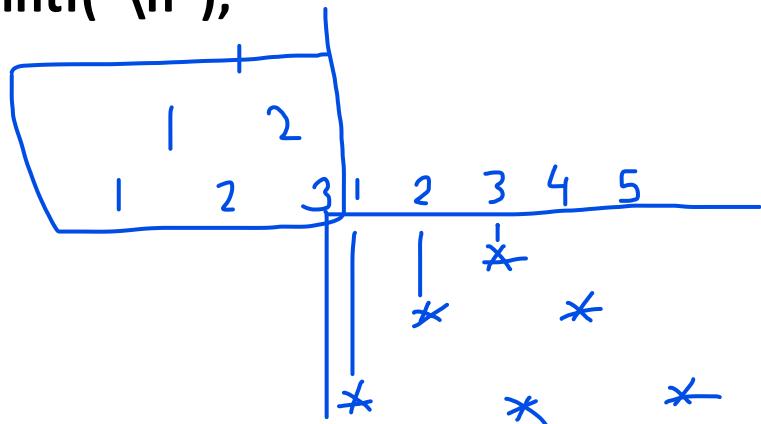
5.

N = 3

```
*  
* *      printf(" *"),  
* * *      printf(" ");
```

#include<stdio.h>

```
int main()  
{  
    int i, j, k, n;  
    printf(" ENTER NO. OF ROWS \n");  
    scanf("%d", &n);  
  
    for( i = 1 ; i <= n ; i++ )  
    {  
        for( k = 1 ; k <= (n-i) ; k++ ) // for spaces  
        {  
            printf(" ");  
        }  
        for( k = 1 ; k <= i ; k++ ) // for stars  
        {  
            printf(" *");  
        }  
        printf("\n");  
    }  
}
```



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```
    printf(" ");
} // k (imp)

for( j = 1 ; j <= i ; j++)
{
    printf("*");    printf(" ");
} // j
printf("\n");
} // i
}
```

4. N = 3

```
* * *
* *
*
```

```
#include<stdio.h>
int main()
```

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```
{  
    int i , j , k , n ;  
  
    printf(" ENTER NO. OF ROWS \n ");  
    scanf("%d" , &n);  
  
    for( i = n ; i >= 1 ; i-- )  
    {  
  
        for( k = 1 ; k <= (n-i) ; k++ ) // for spaces  
        {  
            printf(" ");  
        } // k (imp)  
  
        for( j = 1 ; j <= i ; j++ )  
        {  
            printf("*"); printf(" ");  
        } // j  
        printf("\n");  
    } // i  
}
```

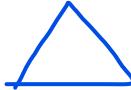
7 . n = 3

*

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$n=3$

*
** *
* * * *



i= 1 1 2 3 4 5
i= 2 * * *
i= 3 * * * * *

```
#include<stdio.h>
int main()
{
    int i , j , k , n ;

    printf(" ENTER NO. OF ROWS \n");
    scanf("%d", &n);

    for( i = 1 ; i <=n ; i++)
    {
        for( k = 1 ; k <= (n -i) ; k++)
        {
            printf(" ");
        } // k --> for space

        for( j = 1 ; j <=(2*i-1) ; j++)
        {
            printf("*");
        }
        printf("\n");
    }
}
```

3 // 1

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}

}

n = 3

for i = 1 to 3

i = 1 k = 1 to 2

k = 1

k = 2

j = 1 to 1

j = 1 *

i = 2 k = 1 to 1

k = 1

j = 1 to 3

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j = 1

j = 2

j = 3

i = 3 k = 1 to 0

j = 1 to 5

j = 1

j = 2

j = 3

j = 4

j = 5



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8. n = 4

*

-for (i= n ; i >= 1 ; i--)

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

```
int main()  
{
```

```
    int i , j , k , n ;
```

```
    printf(" ENTER NO. OF ROWS \n ");  
    scanf("%d" , &n );
```

```
    for( i = n ; i >= 1 ; i-- )  
    {
```

```
        for( k = 1 ; k <= (n -i) ; k++)  
        {
```

```
            printf(" ");
```

} // k --> for space

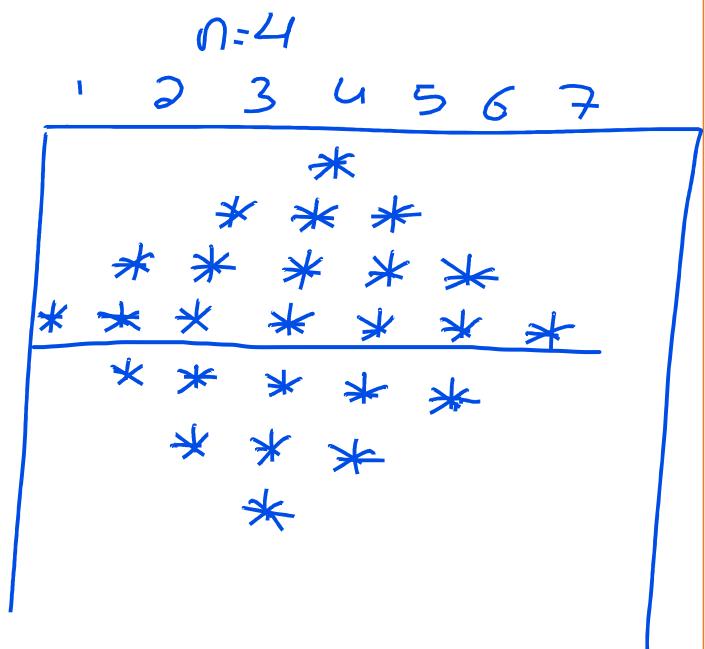
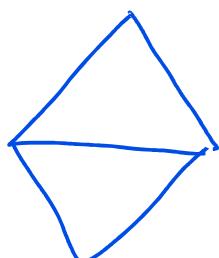
```
for( j = 1 ; j <=(2*i-1) ; j++)
{
    printf("*");
}
printf("\n");
}

}
```

9.

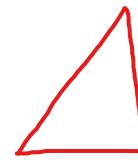
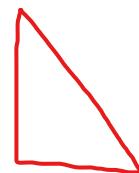
$n = 4$

```
*
**
***
*****
*****
***
```



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*

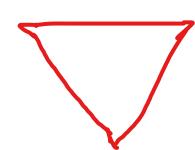
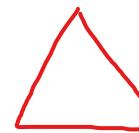
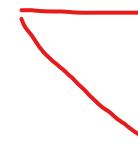
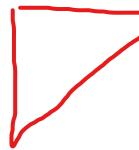


```
#include<stdio.h>
```

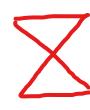
```
int main()
```

```
{
```

```
    int i,j, k, n ;
```



```
printf("enter n\n");
```



```
scanf("%d", &n);
```

```
for(i= 1; i<=n ; i++) // 1
```

```
{
```

```
    for ( k =1 ;k <= n-i ; k++)
```

```
{
```

```
        printf(" "); // for spaces
```

```
}
```

```
    for(j= 1 ; j <= (2*i-1) ; j++)
```

```
{
```

```
        printf("*");
```

```
}
```

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```
printf("\n");

}

for(i=n-1; i>=1; i--) // 2
{
    for ( k =1 ;k <= n-i ; k++)
    {
        printf(" "); // for spaces
    }
    for(j= 1;j <= (2*i-1) ; j++)
    {

        printf("*");
    }
    printf("\n");

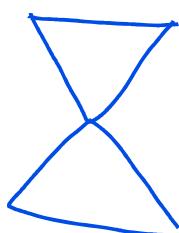
}
/*

```

10. $n = 4$

*

$n=4$



1 2 3 4 5 6 7

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

*/

#include<stdio.h>

```
int main()
{
```

```
    int i,j, k, n ;
```

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```
printf("enter n\n");

scanf("%d", &n);

for(i=n; i>=1; i--)

{

    for ( k =1 ;k <= n-i ; k++)
    {
        printf(" "); // for spaces
    }
    for(j= 1 ; j <= (2*i-1) ; j++)
    {

        printf("*");
    }
    printf("\n");

}

for(i= 2; i<=n ; i++)
{
```

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```
for ( k =1 ;k <= n-i ; k++)
{
    printf(" "); // for spaces
}
for(j= 1;j <= (2*i-1) ; j++)
{
    printf("*");
}
printf("\n");
}
```

