

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

```
int main() {
```

```
    int n=5;
```

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

```
{
```

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

```
{
```

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

```
}
```

```
    for(int k=1;k<=i;k++)
```

```
{
```

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

```
}
```

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

```
}
```

```
    return 0;
```

```
}
```

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.....

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

```
int main() {
```

```
    int n=5;
```

```
    for(int i=1;i<=5;++i)
```

```
{
```

```
    for(int k=1;k<=5-i;++k)
```

```
{
```

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

```
}
```

```

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

        {

            printf("* ");

        }

        printf("\n");


    }

    return 0;

}

*

***

*****

*****

.....

#include <stdio.h>


int main() {

    int n=5;

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

    {

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

```

```
{  
    printf("*");  
}  
printf("\n");  
  
}  
return 0;  
}
```

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

```
int main() {
```

```
int n=5;

for(int i=5;i>=1;--i)
{
    for( int j=1;j<=i;j++)
    {
        printf("*");
    }
    printf("\n");

}

return 0;

}
```

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```
int main() {  
  
    int n=5;  
  
    for(int i=5;i>=1;--i)  
  
    {  
  
        for (int k=5;k>=i;--k)  
  
        {  
  
            printf(" ");  
  
        }  
  
        for( int j=1;j<=i;j++)  
  
        {  
  
            printf("*");  
  
        }  
  
        printf("\n");  
  
    }  
  
    return 0;
```

```
}
```

```
*****
```

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```

```
*
```

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

```
int main() {
```

```
    int n=5;
```

```
    for(int i=5;i>=1;--i)
```

```
{
```

```
    for(int k=1;k<=5-i;++k)
```

```
{  
    printf(" ");  
}
```

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

```
}  
  
return 0;  
}
```

```
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```

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```
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```



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

```
int main() {
```

```
    int n=5;
```

```
    for(int i=5;i<=i;--i)
```

```
{
```

```
    for(int k=1;k<=5-i;++k)
```

```
{
```

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

```
}
```

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

```
{
```

```
    if(j==1||j==i||i==5)
```

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

```
    else
```

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

```
}
```

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

```
}  
  
    return 0;  
  
}
```

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

```
int main() {  
  
    int n=5;  
  
    for(int i=1;i<=5;++i)  
  
    {  
  
        for(int k=1;k<=i;++k)  
  
        {  
  
            printf(" ");  
  
        }  
  

```

```
        for( int j=1;j<=5;j++)  
  
        {  
  
            printf("* ");  
  
        }  
  

```

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

```
}
```

```
return 0;
```

```
}
```

```
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```
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```

```
* * * * *
```

```
* * * * *
```

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

```
int main() {
```

```
    int n=5;
```

```
    for(int i=1;i<=5;++i)
```

```
{
```

```
    for(int k=1;k<=5-i;++k)
```

```
{
```

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

```
}
```

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

```
{
```

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

```
}
```

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

```
}
```

```
for (int q=n-1;q>=1;--q)
```

```
{
```

```
    for (int w=1;w<=n-q;++w)
```

```
{
```

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

```
}
```

```
    for (int s=1;s<=q;++s)
```

```
{
```

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

```
}  
  
    printf("\n");  
  
}  
  
    return 0;  
  
}
```

```
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* *  
  
*
```

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

```
int main() {
```

```
    int n=4;
```

```

    for(int i=4;i>=1;--i)
    {
        for(int k=1;k<=n-i;++k)
        {
            printf(" ");
        }

        for( int j=1;j<=i;j++)
        {
            printf("* ");
        }

        printf("\n");
    }

    for(int x=2;x<=n;++x)
    {

        for(int w=1;w<=4-x;++w)
        {

```

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

```
}
```

```
for(int s=x;s>=1;--s)
```

```
{
```

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

```
}
```

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

```
}
```

```
return 0;
```

```
}
```

HOOR GLASS pattern

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

```
int main() {
```

```

for(int i=1;i<=5;++i)
{
    for(int j=1;j<=5;++j)
    {
        if(i==1||j==1||i==5||j==5)
            printf("* ");
        else
            printf(" ");
    }
    printf("\n");
}

return 0;
}

```

```

* * * * *

```

```

*           *

```

```

*           *

```

```

*           *

```

```

* * * * *

```

```

#include <stdio.h>

```



```
int main() {  
    // Write C code here  
    for(int i=1;i<=5;i++)  
    {  
        for(int j=1;j<=(5-i);j++)  
        {  
            printf(" ");  
        }  
        for(int k=1;k<=i;k++)  
        { if(k==1||k==i||i==5)  
            printf(" *");  
            else  
                printf(" ");  
        }  
        printf("\n");  
    }  
}
```

```
return 0;
```

```
}
```

\*

```

* *

*  *

*   *

* * * * *
```

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

```
int main() {
```

```
    int n=5;
```

```
    for(int i=5;i>=1;--i)
```

```
{
```

```
    for(int k=1;k<=5-i;++k)
```

```
{
```

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

```
}
```

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

```
{
```

```
if(j==1||j==i||i==5)
```

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

```
else
```

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

```
}
```

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

```
}
```

```
return 0;
```

```
}
```

```
* * * * *
```

```
*      *
```

```
*      *
```

```
* *
```

```
*
```

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

```
int main() {
```

```
int n=5;

for(int i=1;i<=5;++i)
{
    for(int k=1;k<=5-i;++k)
    {
        printf(" ");
    }
}
```

```
for( int j=1;j<=i;j++)
{
    if(j==1||j==i)
        printf("* ");
    else
        printf(" ");
}

printf("\n");
```

```
}

for (int q=n-1;q>=1;--q)
{
```

```

for (int w=1;w<=n-q;++w)
{
    printf(" ");
}
for (int s=1;s<=q;++s)
{
    if (s==1||s==q)
        printf("* ");
    else
        printf(" ");
}
printf("\n");
}
return 0;
}

```

```

*

* *

*  *

*   *

```

\*       \*

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\*   \*

\*

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

```
int main() {
```

```
    int n=4;
```

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

```
{
```

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

```
{
```

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

```
}
```

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

```

{
    if(j==1||j==i||i==n)
        printf("* ");
    else
        printf(" ");
}
printf("\n");

}

for(int x=2;x<=n;++x)
{

    for(int w=1;w<=n-x;++w)
    {
        printf(" ");

    }

    for(int s=x;s>=1;--s)
    {
        if(s==x||s==1||x==n)

```

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

```
else
```

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

```
}
```

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

```
}
```

```
return 0;
```

```
}
```

```
* * * *
```

```
*  *
```

```
* *
```

```
*
```

```
* *
```

```
*  *
```

```
* * * *
```



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

```
int main() {
```

```
    int n =4;
```

```
    int c=1;
```

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

```
    {
```

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

```
        {
```

```
            printf("%d ",c);
```

```
            c=c+1;
```

```
        }
```

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

```
    }
```

```
    return 0;
```

```
}
```

1

2 3

4 5 6

7 8 9 10

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

```
int main() {
```

```
    int n=4;
```

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

```
{
```

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

```
{
```

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

```
}
```

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

```
{
```

```

        if(j==1||j==i)

            printf("1 ");

        else

            printf("%d ",(i-1));

    }

    printf("\n");

}

return 0;

}

```

```

1

1 1

1 2 1

1 3 3 1

```

```

#include <stdio.h>

```

```

int main() {

    int n=10;

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

    {

        for(int k=1;k<=i;++k)

```

```
{  
    printf("%d ",k);  
}  
printf("\n");
```

```
}  
return 0;
```

```
}
```

```
1
```

```
1 2
```

```
1 2 3
```

```
1 2 3 4
```

```
1 2 3 4 5
```

```
1 2 3 4 5 6
```

```
1 2 3 4 5 6 7
```

```
1 2 3 4 5 6 7 8
```

```
1 2 3 4 5 6 7 8 9
```

```
1 2 3 4 5 6 7 8 9 10
```

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

```
int main() {
```

```
    int n=6;
```

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

```
{
```

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

```
{
```

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

```
}
```

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

```
{
```

```
        printf("%d ",j);
```

```
}
```

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

```
}
```

```
    return 0;
```

```
}
```

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

1 2 3 4 5 6

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

```
int main() {
```

```
    int n=6;
```

```
    int p=1;
```

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

```
{
```

```
    for(int k=1;k<=(n-i)*2;++k)
```

```
{
```

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

```
}
```

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

```
{    if(j<=i)
{
    printf("%d ",j);
}

    else

    { printf("%d ",p);

        p=p+1;

    }
```

```
}

printf("\n");

p=1;
```

```
}
```

```
p=1;
```

```
for (int q=n-1;q>=1;--q)
```

```
{
```

```
    for (int w=1;w<=(n-q)*2;++w)
```

```
{
```

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

```
}  
  
for (int s=1;s<=q*2;++s)  
{ if(s<=q)  
  
    {  
  
        printf("%d ",s);  
  
    }  
  
    else  
  
    {  
  
        printf("%d ",p);  
  
        p=p+1;  
  
    }  
  
  
  
  
    }  
  
    printf("\n");  
  
    p=1;  
  
}  
  
return 0;  
  
}
```



1 1

1 2 1 2

1 2 3 1 2 3

1 2 3 4 1 2 3 4

1 2 3 4 5 1 2 3 4 5

1 2 3 4 5 6 1 2 3 4 5 6

1 2 3 4 5 1 2 3 4 5

1 2 3 4 1 2 3 4

1 2 3 1 2 3

1 2 1 2

1 1

```
int main() {  
    int n=10;  
  
    for(int i=1;i<=n;++i)  
{  
    for(int k=1;k<=(n-i);++k)  
    {  
        printf(" ");  
    }  
  
    for( int j=1;j<=i;j++)  
    {
```

```
printf("1 0 ");

}

printf("\n");

}

return 0;

}


1 0

1 0 1 0

1 0 1 0 1 0

1 0 1 0 1 0 1 0

1 0 1 0 1 0 1 0 1 0

1 0 1 0 1 0 1 0 1 0 1 0

1 0 1 0 1 0 1 0 1 0 1 0 1 0

1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0

1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0
```

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

```
int main() {  
    int n=5;  
  
    for(int i=n;i>=1;--i)  
    {  
        for(int k=1;k<=i;++k)  
        {  
            printf("%d",i);  
        }  
        printf("\n");  
    }  
    return 0;  
}
```

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1

