

Assignment - 2

①

```
#include <stdio.h>
int main()
{
    int i, j;
    for (i = 1; i <= 5; i++)
    {
        for (j = 1; j <= i; j++)
        {
            printf("*");
        }
        printf("\n");
    }
    return 0;
}
```

②

```
#include <stdio.h>
int main()
{
    int i, j;
    for (i = 1; i <= 5; i++)
    {
        for (j = 1; j <= 5; j++)
        {
            if (j <= 5 - i)
                printf(" ");
            else
                printf("*");
        }
        printf("\n");
    }
}
```

③ #include <stdio.h>

int main()

{

int i, j;

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

{ for (j = 1; j <= 5; j++)

{

if (j <= 6 - i)

printf(" * ");

else

printf(" ");

{

printf("\n");

}

return 0;

}

④

#include <stdio.h>

int main()

{

int i, j;

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

{

for (j = 1; j <= n; j++)

{

if (i >= j + 1)

printf(" ");

else

printf(" * ");

printf("\n");

*

```

5) #include <stdio.h>
int main()
{
    int i, j;
    for (i = 1; i <= 5; i++)
    {
        for (j = 1; j <= 2 * 5 - 1; j++)
        {
            if (j >= 6 - i && j <= 4 + i)
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
    return 0;
}

```

```

6) #include <stdio.h>
int main()
{
    int i, j;
    for (i = 1; i <= n; i++)
    {
        for (j = 1; j <= 2 * 5 - 1; j++)
        {
            if (j >= i && j <= 10 - i)
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
    return 0;
}

```

```

⑦ #include <stdio.h>
int main()
{
    int i, j;
    for (i=1; i<=5; i++)
    {
        for (j=1; j<=2*5; j++)
            if (j>=j-i && j<=4+i)
                printf(" ");
            else
                printf("%d", j);
        printf("\n");
    }
    return 0;
}

```

```

⑧ #include <stdio.h>
int main()
{
    int i, j, m;
    for (i=1; i<=4; i++)
    for (i=1; i<=4; i++)
    {
        m=1;
        for (j=1; j<=2*4-1; j++)
            if (j>5-i && j<=3+i)
            {
                printf("%d", m);
                j<4? m++: m--;
            }
        else printf(" ");
        printf("\n");
    }
}

```


⑨ #include <stdio.h>
int main()

{
 int x, i, j;
 for (i=1; i<=4; i++)
 {

 x=1;

 for (j=1; j<= 2*4-1; j++)

 if (j%2==i && j<= 8-i)

 {
 printf("%d", x);

 j%4? x++ : x--;

 }

 else

 printf(" ");

 printf("\n");

 }

 return 0;

}

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

```
{
```

```
    char ch = 'A';
```

```
    int i, j;
```

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

```
    {
```

```
        ch = 'A';
```

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

```
        {
            if (j >= 6 - i && j <= 4 + i)
```

```
            {
```

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

```
                j <= 4 ? ch++ : ch--;
```

```
            }
            else
```

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

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

```

(12) #include <stdio.h>
int main()
{
    char ch = 'A';
    int i, j;
    for (i = 0; i < 4; i++)
    {
        ch = 'A';
        for (j = 1; j <= 2 * i + 1; j++)
            if (j <= i && j <= 8 - i)
            {
                printf("%c", ch);
                j < 4 ? ch++ : ch--;
            }
            else
                printf(" ");
            printf("\n");
    }
    return 0;
}

```

```

12 #include <stdio.h>
int main()
{
    int i, j;
    char k;
    for(i=2; i<=4; i++)
    {
        k='A';
        for(j=1; j<=3; j++)
        {
            if(j<=8-i || j>=6+i)
                printf("%c", k);
            j<4? k++: k--;
        }
        else printf(" ");
        if(j==4)
            printf("\n"); k--;
    }
}

```


14

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

```
int main()
```

```
{
```

```
    int i, j;
```

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

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

```
        if (j==1 || i==5 || i==2 && j==2 ||  
            i==3 && j==3 || i==4 && j==4)
```

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

```
        else
```

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

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

```
    return 0;
```

```
}
```

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

{ int i, j;

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

{ for (j=1; j<=5; j++)

{ if (j==i+1 || j==n || i==n)

printf("x");

else printf(" ");

printf("\n");

return 0;

}

16

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

```
int main()
```

```
{ int i;
```

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

```
  { for (j = 1; j <= 9; j++)
```

```
    {
```

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

```
    }
```

foundry shop

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

```
{ if (j==1 || j==2*i-1) i==h)
```

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

```
    else
```

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

```
}
```

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

```
}
```

```
return 0;
```

```
}
```

(17) #include <stdio.h>

```
int main()
```

```
{ int i, j
```

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

```
  { for (j=1; j<=9; j++)
```

```
    if (i==1)
```

```
    { printf("x");
```

```
    }
```

```
    else if (i==5)
```

```
    { if (j>8 & j<=10-i)
```

```
      if (j==i || j==10-i)
```

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

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

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

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

```
}
```

```
}
```


18) ~~##~~ include <stdio.h>
int main()

{ int i, j, x, k = 0;

~~for (i = 1; i <= 9; i++)~~

x = (9 + 1) / 2;

for (i = 1; i <= 9; i++)

{ i <= x ? k++ : k--;

for (j = 1; j <= 9; j++)

if (j >= n + 1 - k && j <= n + k)

printf("x");

else printf(" ");

printf("\n");

return 0;

}

19) ~~##~~ include <stdio.h>
int main()

{ int i, j;

for (i = 1; i <= 19; i++)

{ if (i <= 3)

{

for (j = 1; j <= 19; j++)

{ if (n == 1)

{

```
if (n==1 || j==2)
    printf(" ");
```

```
if (n==3 || n==4 || n==5 || n==6 || n==7)
    printf("x");
```

```
if (n==8 || n==9 || n==10 || n==11 || n==12)
    printf(" ");
```

```
if (j==13 || j==14 || j==15 || j==16 || j==17)
    printf("x");
```

```
{
{
for (j=0; j<=19; j++)
```

```
{
    if (i==2)
```

```
{
    if (j==1)
        printf(" ");
```

```
if (j==2 || j==3 || j==4 || j==5 || j==6 || j==7
    || j==8)
    printf("x");
```

```
if (j==9 || j==10 || j==11)
    printf(" ");
```

```
if (j==12 || j==13 || j==14 || j==15 || j==16
    || j==17 || j==18)
    printf("x");
```

```
{
{
for (j=1; j<=19; j++)
    if (i==3)
```

~~if (j == 1 || j == 2 || j == 3 || j == 4 || j == 5 || j == 6 || j == 7 || j == 8 || j == 9)~~

~~printf("*");~~

~~if (j == 10)~~

~~printf(" ");~~

~~if (j == 11 || j == 12 || j == 13 || j == 14 || j == 15 || j == 16 || j == 17 || j == 18 || j == 19)~~

~~printf("*");~~

}

}

printf("\n");

}

~~if (i == 4)~~

{

for (j = 1; j <= 19; j++)

{ if (i == 7)

printf("M");

else if (i == 8)

printf("y");

else if (i == 9)

printf("S");

else if (i == 10)

printf("i");

else if (i == 11)

printf("r");

else if (i == 12)

printf("G");

```

        else printf("*");
    }
    printf("\n");
}
if (i >= 5)
{
printf
    for (j = 1; j <= 19; j++)
        if (j >= i - 3 && j <= 23 - i)
            printf("*");
        else
            printf(" ");
    printf("\n");
}
return 0;

```