

## Assingment - 8

WAP to draw the following pattern

②

```

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

```

```

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

```

```

int main()
{
    int i, j;
    printf(" enter a number");
    Scanf("%d", &j);
    for (i=1; i<=5; i++)
    {
        for (j=1; j<=5; j++)
            if (j<=i)
                printf("*");
            else
                printf(" ");
        printf("\n");
    }
    return 0;
}

```

```

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;
}

```

(3)

```

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

```

(4)

```

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

```

```

#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;
}

```

```

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

```

(5)

```

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

```

(6)

```

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

```

(5)

DATE \_\_\_\_\_  
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i	J
1	$J >= 5 \ \&\ \& J \leq 5$
2	$J >= 4 \ \&\ \& J \leq 6$
3	$J >= 3 \ \&\ \& J \leq 7$
4	$J >= 2 \ \&\ \& J \leq 8$
5	$J >= 1 \ \&\ \& J \leq 9$

i	J
1	$J > 1 \ \&\ J \leq 9$
2	$J > 2 \ \&\ J \leq 8$
3	$J > 3 \ \&\ J \leq 7$
4	$J > 4 \ \&\ J \leq 6$
5	$J > 5 \ \&\ J \leq 5$

```
#include<stdio.h>
int main()
{
    int i, J;
    for(i=1; i<=5; i++)
    {
        for(J=1; J<=9; J++)
        {
            if(J>=6-i && J<=4+i)
                printf(" * ");
            else
                printf("   ");
        }
        printf("\n");
    }
    return 0;
}
```

```
#include<stdio.h>
int main()
{
    int i, J;
    for(i=1; i<=5; i++)
    {
        for(J=1; J<=9; J++)
        {
            if(J>=i && J<10-i)
                printf(" * ");
            else
                printf("   ");
        }
        printf("\n");
    }
    return 0;
}
```

(8)

```
1
121
12321
1234321
```

(9)

```
1234321
12323
121
1
```

i	J	
1	$J >= 4$	$J \leq 4$
2	$J >= 3$	$J \leq 5$
3	$J >= 2$	$J \leq 6$
4	$J >= 1$	$J \leq 6$

i	J	
1	$J >= 1$	$J \leq 1$
2	$J >= 2$	$J \leq 2$
3	$J >= 3$	$J \leq 3$
4	$J >= 4$	$J \leq 4$

```
#include <stdio.h>
int main()
{
    int i, J, K;
    for (i = 1; i <= 4; i++)
    {
        K = 1;
        for (J = 1; J <= 7; J++)
        {
            if (J >= 5 - i && J <= 3 + i)
            {
                printf("%d", K);
                K++;
            }
            else
                printf(" ");
        }
        printf("\n");
    }
    return 0;
}

# include <stdio.h>
int main()
{
    int i, J, K;
    for (i = 1; i <= 4; i++)
    {
        K = 1;
        for (J = 1; J <= 7; J++)
        {
            if (J >= i && J <= 8 - i)
            {
                printf("%d", K);
                K++;
            }
            else
                printf(" ");
        }
        printf("\n");
    }
    return 0;
}
```

(11)

```

A
A B A
A B C B A
A B C D C B A
A B C D E D C B A

```

(12)

```

A B C D C B A
A B C B A
A B A
A

```

```

# include<stdio.h>
int main()
{
    int i, j, k;
    for(i=1; i<=5; i++)
    {
        k = 'A';
        for(j=1; j<=9; j++)
        {
            if(j>6-i && j<=4+i)
                printf("%c", k);
            k++;
        }
        else
            printf("  ");
        printf("\n");
    }
    return 0;
}

```

```

# include<stdio.h>
int main()
{
    int i, j, k;
    for(i=1; i<=4; i++)
    {
        k = 'A';
        for(j=1; j<=7; j++)
        {
            if(j>=i && j<=8-i)
                printf("%c", k);
            k++;
        }
        else
            printf("  ");
        printf("\n");
    }
    return 0;
}

```

(10)

(7) \* \* \* \* \* \* \* \* \*  
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 \* \* \* \* \* \* \* \* \*  
 \* \* \* \* \* \* \* \* \*  
 \* \* \* \* \* \* \* \* \*

1 2 3 4 3 2 1  
 1 2 3 3 2 1  
 1 2 2 1  
 1 .

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

```
# include<stdio.h>
int main()
{
    int i, j, k;
    for(i=1; i<=4; i++)
    {
        for(j=1; j<=7; j++)
            if(j<=5-i || j>=3+i)
                {
                    printf("%d", k);
                    k++;
                }
            else
                printf(" ");
        printf("\n");
    }
}
```

(14)

\*  
 \* \*  
 \* \* \*  
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\*  
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(15)

```

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

```

```

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

```

(13)

ABCDEFGFEDCBA  
 ABCDEF FEDCBA  
 ABCDE EDCBA  
 ABCD DCBA  
 ABC CBA  
 AB BA  
 A A

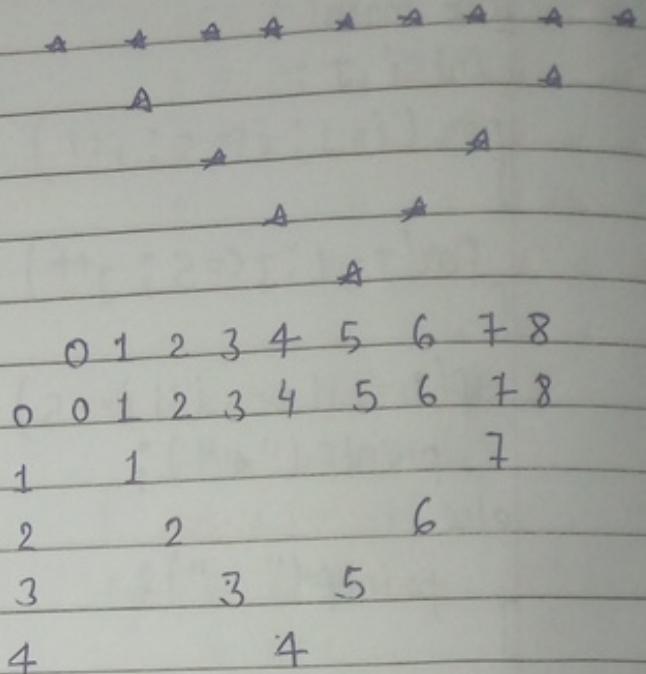
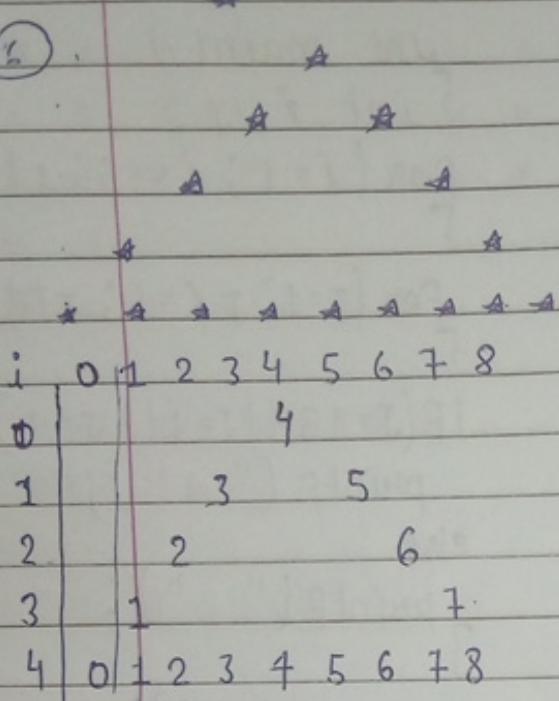
```

int main()
{
    int i, j, k;
    for (i = 1; i <= 7; i++)
    {
        k = 'A';
        for (j = 1; j <= 13; j++)
        {
            if (j < 8 - i || j >= 6 + i)
                printf(".c", k);
            k++;
        }
        printf("\n");
    }
}

```

(17)

(16)



```
#include <stdio.h>
int main()
{
    int i, j;
    for(i=0; i<=4; i++)
    {
        for(j=0; j<=4; j++)
        {
            if(j==4-i) || (j==4+i) || (i==4)
                printf(" * ");
            else
                printf("   ");
        }
        printf("\n");
    }
}
```

```
#include <stdio.h>
int main()
{
    int i, j;
    for(i=0; i<=4; i++)
    {
        for(j=0; j<=4; j++)
        {
            if(
                printf(" * ");
            )
            else
                printf("   ");
        }
        printf("\n");
    }
}
```

(18)

\*  
A A \*  
A A A A A  
A A A A A A A A  
A A A A A A A A  
A A A A A A A A  
\* \* \* \*

```
int main()
{
    int i, j;
    for (i=1; i<=5; i++)
    {
        for (j=1; j<=9; j++)
        {
            if ((j>=6-i) && (j<=4+i))
                printf(" *");
            else
                printf(" ");
            printf("\n");
        }
        for (i=1; i<=4; i++)
        {
            for (j=1; j<=9; j++)
            {
                if ((j>i) && (j<=9-i))
                    printf(" *");
                else
                    printf(" ");
            }
            printf("\n");
        }
    }
    return 0;
}
```

19

j	10	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
1		A A A A A
2		A A A A A A A
3		A A A A A A A A
4		A A A A A MYSTIC
5		A A A A A A A A A
6		A A A A A A A A A A
7		A A A A A A A A A A
8		A A A A A A A A A
9		A A A A A A K A *
10		A A A A A A A
11		A A K A *
12		A A A
13		*

```

#include < stdio.h>
int main( )
{
    int i, j;
    for (i = 1; i <= 3; i++)
    {
        for (j = 1; j <= 19; j++)
        {
            if (((7 - i) <= j) && (j <= 6 + i) || ((14 - i) <= j)
                && (16 + i) >= j))
                printf ("*");
            else
                printf ("  ");
        }
        printf ("\n");
    }
}

```

```
for( i=1 ; i<= 10 ; i++ )  
{  
    for (j=1 ; j<= 19 ; j++ )  
    {  
        if ((i==1) && (j==6 ))  
            printf (" mysing ");  
        if ((i==1) && (j>=6) && (j<=11))  
            Continue;  
        if ((j>=i) && (j<=20-i))  
            printf ("A");  
        else  
            printf (" ");  
    }  
    printf ("\n");  
}  
return 0;
```