```
int n=7;
        for(int i=0;i<n;i++) {
            for(int j=0;j<n;j++) {
                if((i==0)||(i==n-1)||j==(n-1)/2){
                System.out.print(s: "*");
                else {
                System.out.print(s: " ");
            System.out.println( );
//output:
           *
```

```
int n=7;
        for(int i=0;i<n;i++) {</pre>
            for(int j=0;j<n;j++) {
                if((i==(n-1)/2 \&\& j>0 \&\& j<(n-1)/2)|| (j==0) || j==(n-1)/2){}
                System.out.print(s: "*");
                else {
                System.out.print(s: " ");
            System.out.println( );
//output:
```

```
int n=10;
           for(int i=0;i<n;i++) {
               for(int j=0;j<n;j++) {</pre>
                   if(i=n-1 \&\& j>=(n-1)/2 \mid j==n-1 \&\& i>=(n-1)/2 \mid i+j>=(n-1)+(n-1)/2)
                   System.out.print(s: "*");
                   else {
                   System.out.print(s: " ");
               System.out.println( );
output:
     ***
    ****
   ****
```

```
int n=10;
            for(int i=0;i<n;i++) {
                for(int j=0;j<n;j++) {</pre>
                    if(i==0||j==0 \& i<(n-1)/2||i+j<=(n-1)/2||j-i>=(n-1)/2||
                    j==n-1 && i<(n-1)/2 || j==0 && i>(n-1)/2 || i==n-1 && j<(n-1)/2 ||
                    i-j>=(n-1)/2){
                    System.out.print(s: "*");
                    else {
                    System.out.print(s: " ");
                System.out.println( );
//output
                  ****
            *****
```

```
int n=11;
    for(int i=0;i<n;i++) {</pre>
         for(int j=0;j<n;j++) {</pre>
             if((i==n/4 \&\& j>n/4 \&\& j<(3*n)/4) || (i==(3*n)/4 \&\& j>n/4 \&\& j<(3*n)/4)||
                      (j=-n/4 \&\& i>n/4 \&\& i<(3*n)/4)||(j=-(3*n)/4 \&\& i>n/4 \&\& i<(3*n)/4)||
                      (i==j) \&\& i>n/2 \&\& j>n/2){
             System.out.print(s: "*");
             else {
             System.out.print(s: " ");
         System.out.println( );
output:\
```

```
//pattern-2
        int n=5;
        for(int i=0;i<n;i++) {
            for(int j=0;j<n;j++) {
                if(i==(n-1)/2||j==0||j==n-1) {
                System.out.print(s: "*");
                else {
                System.out.print(s: " ");
            System.out.println( );
// output:
```

```
int n=10;
            for(int i=0;i<n;i++) {
                for(int j=0;j<n;j++) {
                    if( i=0 \&\& j>(n-1)/2 \mid j-i>= (n-1)/2 \mid j==n-1 \&\& i<(n-1)/2){
                    System.out.print(s: "*");
                     else {
                     System.out.print(s: " ");
                System.out.println( );
//output:
       ****
```

```
int n=10;
       for(int i=0;i<n;i++) {
           for(int j=0;j<n;j++) {
               if((i==0 \&\& j<(n-1)/2 || j==0 \&\& i<(n-1)/2 || i+j==(n-1)/2)){
               System.out.print(s: "*");
               else {
               System.out.print(s: " ");
           System.out.println( );
//output:
   ******
   *****
```

```
int n=7;
        for(int i=0;i<n;i++) {
            for(int j=0;j<n;j++) {</pre>
                if(j==0 | | i+j==(n-1)/2 | | i-j==(n-1)/2){
                System.out.print(s: "*");
                else {
                System.out.print(s: " ");
            System.out.println( );
//output
```

```
int n=7;
       for(int i=0;i<n;i++) {
            for(int j=0;j<n;j++) {
                if(i==0||j==0||i==(n-1)/2||j==n-1) {
                System.out.print(s: "*");
                else {
                System.out.print(s: " ");
            System.out.println( );
//output:
        *
              *
```

```
int n=7;
        for(int i=0;i<n;i++) {
            for(int j=0;j<n;j++) {
                if((i==0 \&\& j< n-1)||(j==0)||(i==n-1 \&\& j< n-1)||(j==n-1\&\&
                i>0 && i<n-1)){
                System.out.print(s: "*");
                else {
                System.out.print(s: " ");
            System.out.println( );
//output:
```

```
int n=10;
       for(int i=0;i<n;i++) {
           for(int j=0;j<n;j++) {
                if(i=0)| j=0 \&\& i<(n-1)/2||i+j<=(n-1)/2|| j-i>= (n-1)/2|| j==n-1 \&\& i<
                (n-1)/2){
               System.out.print(s: "*");
                else {
               System.out.print(s: " ");
           System.out.println( );
//output:
```

```
int n=10:
    for(int i=0;i<n;i++) {
        for(int j=0;j<n;j++) {
            if((i==0 \&\& j<(n-1)/2 || j==0 \&\& i<(n-1)/2 || i+j==(n-1)/2 )){
            System.out.print(s: "*");
            else {
            System.out.print(s: " ");
        System.out.println( );
//output:
```

```
pattern-1
   int n=4;
    for(int i=0;i<4;i++) {
        for(int j=0;j<4;j++) {
            if(i==0 || i==n-1 || j==0 || j==n-1) {
            System.out.print("*");
            else {
            System.out.print(" ");
        System.out.println( );
output:
```

```
int n=11;
            for(int i=0;i<n;i++) {
                for(int j=0;j<n;j++) {
                     if(i+j)=(n-1)/2 \&\& j<=(n-1)/2 \&\& i<=(n-1)/2|
                        i-j <= (n-1)/2 \&\& i>= (n-1)/2 \&\& j <= (n-1)/2 |
                        j-i <= (n-1)/2 \&\& i <= (n-1)/2 \&\& j >= (n-1)/2|
                        i+j <=n-1+(n-1)/2 \&\& i>=(n-1)/2 \&\& j>=(n-1)/2)
                     System.out.print(s: "*");
                     else {
                     System.out.print(s: " ");
              }
                System.out.println( );
output:
    ***
   ****
  *****
 *****
*******
******
  *****
   ****
```

```
int n=7;
for(int i=0;i<n;i++) {
    for(int j=0;j<n;j++) {
        if(i==j || j==0 || j==n-1){
        System.out.print(s: "*");
        else {
        System.out.print(s: " ");
    System.out.println( );
//output
```

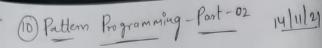
```
int n=7;
        for(int i=0;i<n;i++) {
            for(int j=0;j<n;j++) {
                if((i==0)||(i==n-1)||j==(n-1)/2){
                System.out.print(s: "*");
                else {
                System.out.print(s: " ");
            System.out.println( );
//output:
           *
```

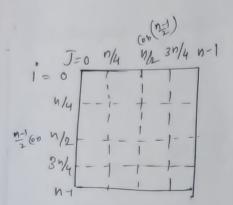
```
//P-2 space
           int n=10;
            for(int i=0;i<n;i++) {
                for(int j=0;j<n;j++) {</pre>
                     if(j=0 \&\& i>(n-1)/2 \mid i=n-1 \&\& j<(n-1)/2 \mid |i-j>=(n-1)/2 )
                     System.out.print(s: "*");
                     else {
                     System.out.print(s: " ");
                System.out.println( );
//output:
```

```
int n=7;
for(int i=0;i<n;i++) {
    for(int j=0;j<n;j++) {
        if(i+j==(n-1)/2 \mid i-j==(n-1)/2)
        System.out.print(s: "*");
        else {
        System.out.print(s: " ");
    System.out.println( );
//output:
```

```
int n=10;
for(int i=0;i<n;i++) {
    for(int j=0;j<n;j++) {</pre>
        if((i=0 \&\& j>0 \&\& j<(n-1)/2) \mid (j=0 \&\& i>0 \&\& i<(n-1)|| (j=(n-1)/2 \&\& i>0 \&\& i<(n-1)/2))||
            (i==(n-1)/2 \&\& j>=0 \&\& j<=(n-1)/2)){
        System.out.print(s: "*");
        System.out.print(s: " ");
    System.out.println();
****
```

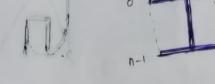
```
int n=7;
        for(int i=0;i<n;i++) {
            for(int j=0;j<n;j++) {
                if((i==0)||(i==n-1)||j==(n-1)/2){
                System.out.print(s: "*");
                else {
                System.out.print(s: " ");
            System.out.println( );
//output:
           *
```

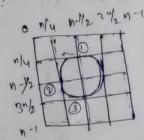






$$|f|^{2} = 0 + 2 = n - 1 + 2 = (n - 1)/2$$





$$if[1 = n/4 44 j > n/4 PP j < (3n)/2) ||$$

$$(j = n/4 44 j > n/4 PP j < (3n)/2) ||$$

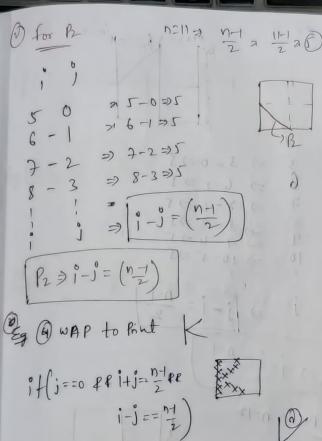
$$(i = (3n/2) 44 j > n/4 44 j < (3n)/2) ||$$

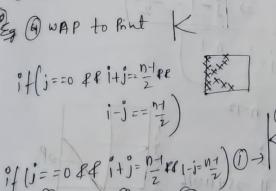
$$(i = (3n/2) 44 j > n/4 44 j < (3n)/2) ||$$

$$(j = (3n/2) 44 j > n/4 44 j < (3n)/2) ||$$

Rit H if(j==0||j=(3+n)/4 || j==(4-1)/2 & fiz=(3+n)/4) $if (i = 0) \text{ of } j > 0 \text{ of } j < \frac{n+1}{2} \text{ or } j > 0 \text{ of } j < \frac{n+1}{2} \text{ or } j > 0 \text{ of } j < \frac{n+1}{2} \text{ or } j > 0 \text{ of } j < \frac{n+1}{2} \text{ or } j > 0 \text{ of } j < \frac{n+1}{2} \text{ or } j > 0 \text{ of } j < \frac{n+1}{2} \text{ or } j > 0 \text{ of } j < \frac{n+1}{2} \text{ or } j > 0 \text{$ 11 (i== n-1 44 jr 0 88 j < n-1 2) 11 (j== 1/2 44 170 84 j< 1/2) (s)

@WAP to Rint KXYZNMQWV Ex Complex approach. Concept 1) For Printing Diagonals. diagonal DI diagonal D2 # for Diagonal DZ # For Diagonal D1 010 70+10710 19714311 3 7 3 3 7 3 3 7 3 10 4 6 2 446 210 $D_1 = i = = i$ ijə[i+j=n-l] $D_{2} = 1 + J = 0 - 1$ $D_1 \Rightarrow i = 1 = j$ for (int 1=0; 1<0; 1++){ Code - int n=10 for (int j=0; j2n; j++) d of (i==j1(i+j){ S.0P("+"); Elve 1 (");





(Py= n-1) + (n-1)