

```

public class Homework
{
    public static void main(String[] args) {
        // Problema 1
        int k = 0;
        for(int i = 1; i <= 5; i++) {
            System.out.println();
            for(int j = 1; j <= 5; j++) {
                if( j == i) {
                    j--;
                    k++;
                    System.out.print(i);
                    if(k > (5 - i)) {
                        k = 0;
                        break;
                    }
                }else {
                    System.out.print(j);
                }
            }
        }

        System.out.println();
        System.out.println();
    }
}

```

```
//Problema 2
```

```
for(int j = 1; j <= 25; j++) {  
    System.out.printf("%3d",j);  
    if((j % 5) == 0) {  
        System.out.println();  
    }  
}
```

```
System.out.println();
```

```
//Problema din clasa
```

```
for(char i = 'a'; i <= 'z'; i++) {  
    for(char j = 'a'; j <= i; j++) {  
        System.out.print(i);  
    }  
}
```

```
System.out.println();
```

```
// Problema 3
```

```
int[][] a = new int[5][5];
```

```
int value = 1;
```

```
for(int i = 0; i < 5; i++) {  
    a[0][i] = value;  
    value++;  
}
```

```
for(int i = 1; i < 5; i++) {  
    a[i][4] = value;  
    value++;  
}
```

```
for(int i = 3; i >= 0; i--) {  
    a[4][i] = value;  
    value++;  
}
```

```
for(int i = 3; i >= 1; i--) {  
    a[i][0] = value;  
    value++;  
}
```

```
for(int i = 1; i < 4; i++) {  
    a[1][i] = value;  
    value++;  
}
```

```
for(int i = 2; i < 4; i++) {  
    a[i][3] = value;  
    value++;  
}
```

```
for(int i = 2; i >= 1; i--) {  
    a[3][i] = value;  
    value++;  
}
```

```
a[2][1] = value;  
value++;  
a[2][2] = value;
```

```
for (int i = 0; i < a.length; i++)  
{  
    for (int j = 0; j < a.length; j++)  
    {  
        // System.out.print(a[i][j]+ "\t");  
        System.out.printf("%4d",a[i][j]);  
    }  
  
    System.out.println();  
}  
}
```

}