

2023

PROBLEM  
SOLVING



CYBER TRON

JAVA



(PROBLEM SOLVING)

T.I.M. HAMIM

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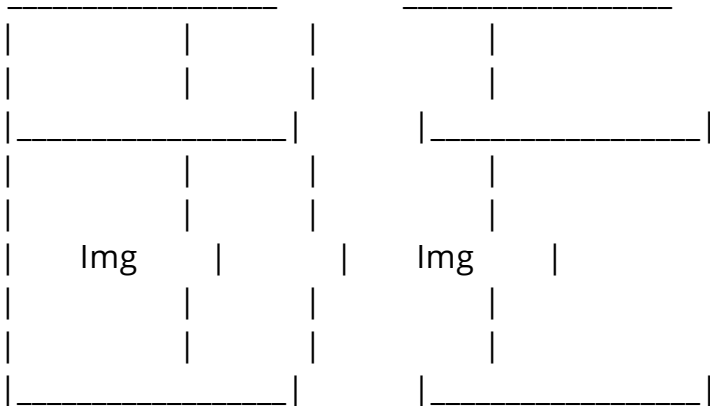
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- Write a program that will show given bellow.

How many box do you want to see >>> 2



```
import java.util.Scanner;
```

```
class FrontEnd {
```

```
    public void box(int a) {
        String name = "Img";
```

```
        for (int i = 1, n = 1; i <= 10; i++, n++) {
            for (int j = 1; j <= 20; j++) {
                if ((i == 1 || i == 4 || i == 10) && (j > 1 &&
j < 20)) {
                    System.out.print("_");
                } else if ((i > 1) && (j == 1 || j == 20)) {
                    System.out.print("|");
                } else if (i == 7 && (j > 8 && j < 12)) {
```

```

        System.out.print(name.charAt(j - 9));
    } else
        System.out.print(" ");
}

if (n <= a - 1) {
    System.out.print("      ");
    i--;
} else {
    n = 0;
    System.out.println();
}
}
System.out.println();
}

```

```

public void boxMaster(int a) {
    int b = a / 5, c = a % 5;
    int h = 0, d = 0, t = 0;

    for (int i = 0; i <= a / 5; i++) {

```

```

        if (b > 0) {
            box(5);
            b--;
        } else {
            box(c);
        }
    }
}

```

```

}

```

```
public class ManyBox {  
    public static void main(String[] args) {  
        Scanner scan = new Scanner(System.in);  
        FrontEnd ob1 = new FrontEnd();  
        System.out.print("How many box do you want to  
see >>> ");  
        int BoxNo = scan.nextInt();  
        ob1.boxMaster(BoxNo);  
        scan.close();  
    }  
}
```

- **Write a program that will show given bellow.**

RidzDoe

=====

Welcome to our e-Shop

```
package ridzdoe;
```

```
public class FrontEnd {
```

```
String mobile = "Mobile", electronics = "Electronics",  
clothes = "Clothes";
```

```
public void displayShop() {
    System.out.println("
RidzDoe");
    System.out.print("
");
    for (int i = 1; i <= 40; i++) {
        System.out.print("=");
    }

    System.out.println("\n
Welcome to our e-Shop\n");

    box();

}
```

```

public void box() {
    int a = 4;

    for (int i = 1, n = 1; i <= 10; i++, n++) {
        for (int j = 1; j <= 20; j++) {
            if ((i == 1 || i == 4 || i == 10) && (j > 1 && j <
20)) {
                System.out.print("_");
            }
            else if ((i > 1) && (j == 1 || j == 20)) {
                System.out.print("|");
            }

            else
                System.out.print(" ");
        }

        if (n <= a-1) {
            System.out.print(" ");
            i--;
        }
        else{
            n=0;
            System.out.println();
        }
    }
    System.out.println();
}

}

```

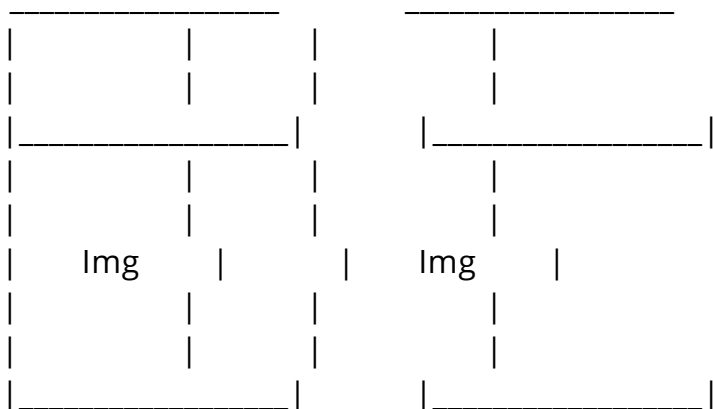


```
package ridzdoe;
```

```
public class Shop {  
    public static void main(String[] args) {  
        FrontEnd ob1 = new FrontEnd();  
        ob1.displayShop();  
    }  
}
```

- Write a program that will show given bellow.

How many box do you want to see >>> 2



```
import java.util.Scanner;
```

```
class FrontEnd {
```

```
    public void box(int a) {
        String name = "Img";
```

```
        for (int i = 1, n = 1; i <= 10; i++, n++) {
            for (int j = 1; j <= 20; j++) {
                if ((i == 1 || i == 4 || i == 10) && (j > 1 &&
j < 20)) {
                    System.out.print("_");
                } else if ((i > 1) && (j == 1 || j == 20)) {
                    System.out.print("|");
                } else if (i == 7 && (j > 8 && j < 12)) {
                    System.out.print(name.charAt(j - 9));
                }
            }
        }
    }
}
```

```

        } else
            System.out.print(" ");
    }

    if (n <= a - 1) {
        System.out.print("        ");
        i--;
    } else {
        n = 0;
        System.out.println();
    }
}
System.out.println();
}

```

```

public void boxMaster(int a) {
    int b = a / 5, c = a % 5;
    int h = 0, d = 0, t = 0;

    for (int i = 0; i <= 6 && h != a; i++) {

        if (i == 0 && t % 5 == 0) {
            if (b > 0) {
                box(5);
                b--;
                d = 5;
            } else {
                box(c);
                d = c;
            }
        }
    }
}

```

```

        for (int j = 0; j < d; j++, h++) { }

        if (i == 6) {
            i = -1;
            t = h;
        } else {
            h = t;
        }
    }
}

}

public class NewBox {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        FrontEnd ob1 = new FrontEnd();
        System.out.print("How many box do you want to
see >>> ");
        int BoxNo = scan.nextInt();
        ob1.boxMaster(BoxNo);
        scan.close();
    }
}

```

- **Write a program that will show given bellow.**

```
How many box do you want to see >>> 2
```

Mobile &gt;&gt;&gt;

The figure consists of two diagrams, (a) and (b), illustrating the construction of a 2D grid. Diagram (a) shows a grid with a central cell labeled 'img'. The grid is composed of a 3x3 arrangement of cells, with the central cell being the 'img' cell. The grid is bounded by a solid line on the top and bottom, and dashed lines on the left and right. Diagram (b) shows a similar grid, but with a dashed line indicating a boundary on the right side. The central cell is labeled 'img'. The grid is bounded by a solid line on the top and bottom, and dashed lines on the left and right.

Name :

Name :

Brand :

Brand :

Made in :

Made in :

### Warranty :

Warranty :

Released :

Released :

Price :

Price :

Product No :

Product No :

```
import java.util.Scanner;
```

```
class FrontEnd {
```

```
    public void box(int a) {  
        String name = "Img";
```

```
        for (int i = 1, n = 1; i <= 10; i++, n++) {  
            for (int j = 1; j <= 20; j++) {  
                if ((i == 1 || i == 4 || i == 10) && (j > 1 && j <  
20)) {  
                    System.out.print("_");  
                } else if ((i > 1) && (j == 1 || j == 20)) {  
                    System.out.print("|");  
                } else if (i == 7 && (j > 8 && j < 12)) {  
                    System.out.print(name.charAt(j - 9));  
                } else  
                    System.out.print(" ");  
            }  
  
            if (n <= a - 1) {  
                System.out.print("      ");  
                i--;  
            } else {  
                n = 0;  
                System.out.println();  
            }  
        }  
        System.out.println();  
    }  
}
```

```
public void boxMaster(int a) {  
    int b = a / 5, c = a % 5;  
    System.out.println("Mobile  >>>\n");  
    int h = 0, d = 0, t = 0;
```

```
    for (int i = 0; i <= 6 && h != a; i++) {  
        if (i == 0 && t % 5 == 0) {  
            if (b > 0) {  
                box(5);  
                b--;  
                d = 5;  
            } else {  
                box(c);  
                d = c;  
            }  
        }  
    }
```

```
    for (int j = 0; j < d; j++, h++) {  
        if (i == 0) {  
            String productInfo = "Name : ";  
            System.out.print(productInfo);  
            for (int n = 1; n <= 32 -  
productInfo.length(); n++) {  
                System.out.print(" ");  
            }  
        } else if (i == 1) {  
            String productInfo = "Brand : ";  
            System.out.print(productInfo);  
            for (int n = 1; n <= 32 -  
productInfo.length(); n++) {
```

```
        System.out.print(" ");
    }
} else if (i == 2) {
    String productInfo = "Made in : ";
    System.out.print(productInfo);
    for (int n = 1; n <= 32 -
productInfo.length(); n++) {
        System.out.print(" ");
    }
} else if (i == 3) {
    String productInfo = "Warranty : ";
    System.out.print(productInfo);
    for (int n = 1; n <= 32 -
productInfo.length(); n++) {
        System.out.print(" ");
    }
} else if (i == 4) {
    String productInfo = "Released : ";
    System.out.print(productInfo);
    for (int n = 1; n <= 32 -
productInfo.length(); n++) {
        System.out.print(" ");
    }
} else if (i == 5) {
    String productInfo = "Price : ";
    System.out.print(productInfo);
    for (int n = 1; n <= 32 -
productInfo.length(); n++) {
        System.out.print(" ");
    }
}
```



```

        } else if (i == 6) {
            String productInfo = "Product No : ";
            System.out.print(productInfo);
            for (int n = 1; n <= 32 -
productInfo.length(); n++) {
                System.out.print(" ");
            }
        }
    }
}

```

```

        if (i == 6) {
            i = -1;
            t = h;
        } else {
            h = t;
        }
        System.out.println();
    }
}

```

```

}

```

```

public class Ridz {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        FrontEnd ob1 = new FrontEnd();
        System.out.print("How many box do you want to
see >>> ");
        int BoxNo = scan.nextInt();
        ob1.boxMaster(BoxNo);
        scan.close();
    }
}

```

- Write a program that will show given bellow.

**1111111111**

**2222222222**

**3333333333**

**4444444444**

**5555555555**

```
public class Test {  
    public static void main(String[] args) {  
        for (;;) {  
            System.out.print("\033[H\033[2J");  
            int a = 10, n = 0, l = 0;  
            for (int i = 1; i <= 5; i++) {  
                for (int t = 1; t <= l; t++) {  
                    System.out.print(" ");  
                }  
                for (int j = 1; j <= 10; j++) {  
                    for (double y = .1; y < 100000; y = y + 0.01) {}  
                    System.out.print(i);  
                }  
                System.out.println();  
                if (i == 5 && n < a) {  
                    n++;  
                    i = 0;  
                    l = n * 14;  
                    for (double y = .1; y < 100000; y = y + 0.001)  
                        {}  
                }  
            }  
        }  
    }  
}
```

```
System.out.print("\u001B[H");
```

```
}
```

```
}
```

```
}
```

```
}
```

```
}
```

- Write a program that will show given bellow.

```

      _____
      |         |
      |         |

```

```

public class Jim{
    public static void main(String[] args) {
        for(;;){
            System.out.print("\033[H\033[2J");
            int a=50, n=0, l=0;
            for(int i=1;i<=2; i++){
                for(int t=1;t<=l;t++){
                    System.out.print(" ");
                }
                for(int j=1;j<=10;j++){
                    if(i==2 && (j==1 || j==10)){
                        System.out.print("|");
                    }
                    else if(j>=2&&j<=9){
                        System.out.print("_");
                    }
                    else
                        System.out.print(" ");
                }
                System.out.println();
                if(i==2 && n<a){
                    n++;
                    i=0;
                    l=n*3;
                    for(double y=.1;y<100000;y=y+0.003){

```

```
System.out.print("\u001B[H");
```

```
}
```

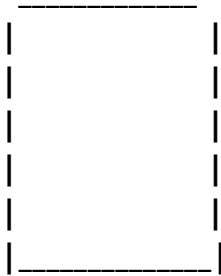
```
}
```

```
}
```

```
}
```

```
}
```

- Write a program that will show given bellow.



```
public class Hulk{
    public static void main(String[] args) {
        for(;;){
            System.out.print("\033[H\033[2J");
            int a=47, n=0, l=0;
            for(int i=1;i<=7; i++){
                for(int t=1;t<=l;t++){
                    System.out.print(" ");
                }
                for(int j=1;j<=15;j++){
                    if((i>=2&&i<=7) && (j==1 | j==15)){
                        System.out.print(" |");
                    }
                    else if((i==1 | i==7)&&(j>=2&&j<=14)){
                        System.out.print(" _");
                    }
                    else
                        System.out.print(" ");
                }
                System.out.println();
                if(i==7 && n<a){
                    n++;
                }
            }
        }
    }
}
```

```
        i=0;
        l=n*3;
        for(double y=.1;y<100000;y=y+0.002){}
        System.out.print("\u001B[H");
    }
}
}
```

- Write a program that will show given bellow.

```

      _____
      |||_____|||
      |||      |||
      |||      |||
      |||      |||
      |||_____|||
      |||_____|||
  
```

```

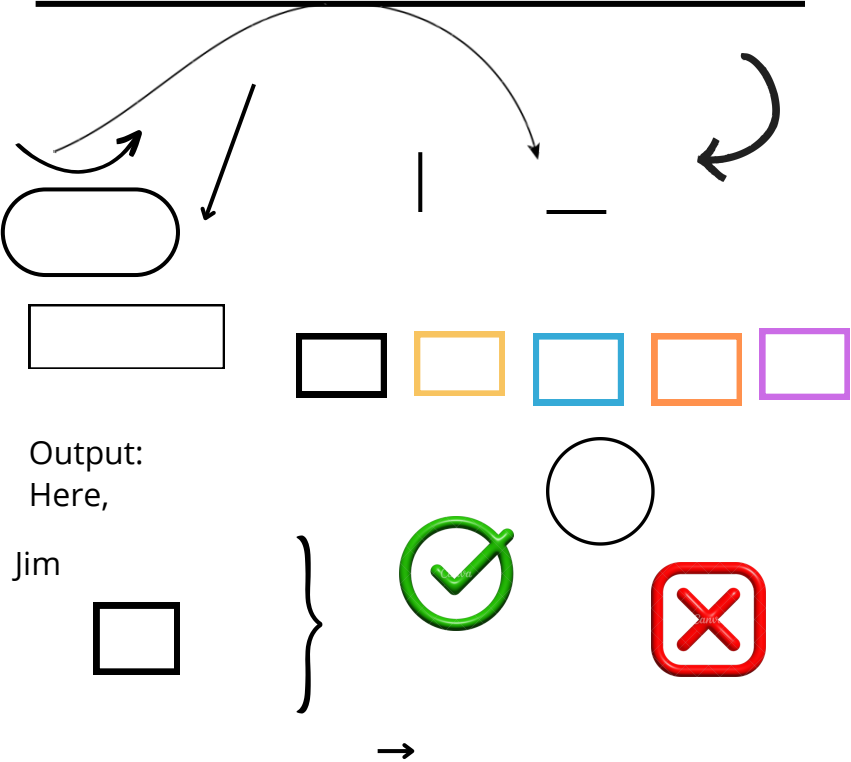
public class Box{
    public static void main(String[] args) {
        for(;;){
            System.out.print("\033[H\033[2J");
            int a=47, n=0, l=0;
            for(int i=1;i<=7; i++){
                for(int t=1;t<=l;t++){
                    System.out.print(" ");
                }
                for(int j=1;j<=15;j++){
                    if((i>=2&&i<=7) && ((j>=1&&j<=3) ||
(j>=13&&j<=15))){
                        System.out.print(" |");
                    }
                    else if((i==1 || i==2 || i==6 || i==7)&&
(j>=4 || j<=12)){
                        System.out.print("_");
                    }
                    else
                        System.out.print(" ");
                }
                System.out.println();
            }
        }
    }
}
  
```



```
if(i==7 && n<a){  
    n++;  
    i=0;  
    l=n*3;  
    for(double y=.1;y<100000;y=y+0.002){}  
    System.out.print("\u001B[H");  
}  
}  
}  
}  
}
```

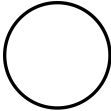
# Operator Precedence and Associativity:

- Make a program that will show String palindrome.

Output:  
Here,

Jim



- What is the output of the following Java program fragment:

Operator



JAVA  
(FOURTH PART)  
T.I.M. HAMIM

ABC  
PROKASHONI