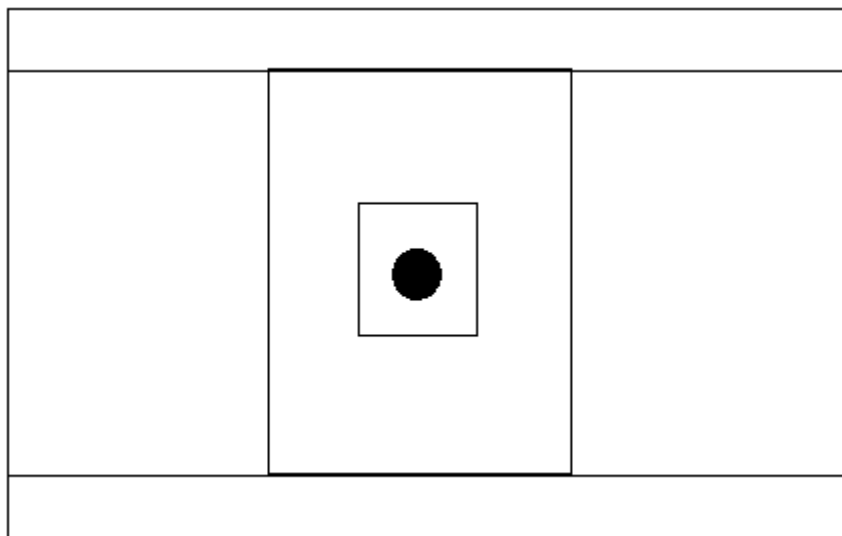


Question One

Consider the code fragment below and complete the paint method to achieve the image shown below it

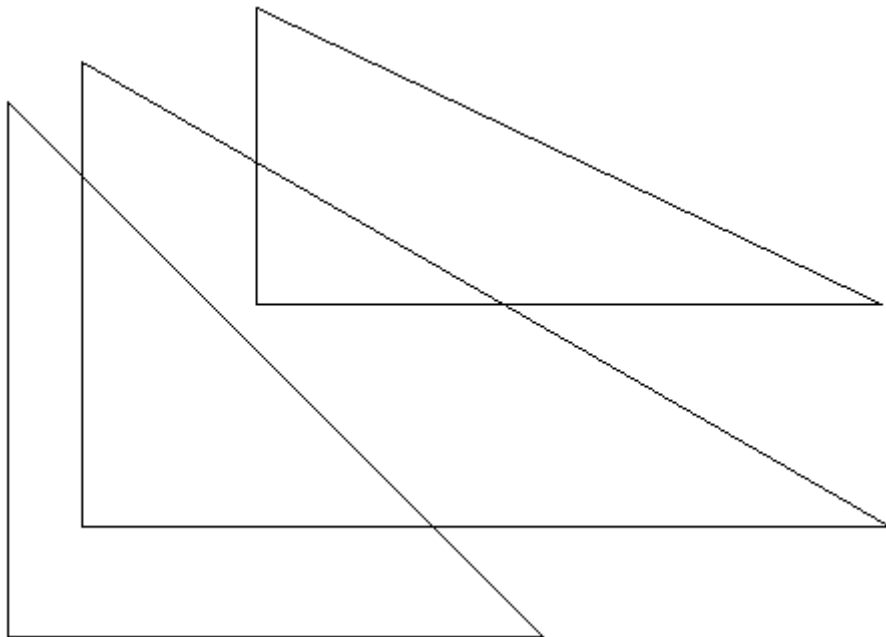
```
public class NewClass extends JFrame {  
    public NewClass(){  
        setTitle("My work");  
        setVisible(true);  
        setDefaultCloseOperation(EXIT_ON_CLOSE);  
        setSize(400, 400);  
    }  
    public void paint(Graphics g){  
        super.paint(g);  
    }  
  
    public static void main(String[] ag){  
        NewClass newc= new NewClass();  
    }  
}
```



Question 2

Consider the code fragment below and complete the paint method to achieve the image shown below it

```
public class NewClass extends JFrame {  
    public NewClass(){  
        setTitle("My work");  
        setVisible(true);  
        setDefaultCloseOperation(EXIT_ON_CLOSE);  
        setSize(400, 400);  
    }  
    public void paint(Graphics g){  
        super.paint(g);  
    }  
  
    public static void main(String[] ag){  
        NewClass newc= new NewClass();  
    }  
}
```



Question 3

Omar uses Internet banking. This pseudocode checks her PIN

```
C ← 0
INPUT PIN
X ← PIN
REPEAT
    X ← X/10
    C ← C+1
UNTIL X < 1
IF C <> 5
    THEN
        PRINT "ERROR IN PIN"
    ELSE
        PRINT "PIN OK"
ENDIF
```

What value of c and what message would be output if the following PINS were entered?

- a. 51020
- b. 5120

Question 4

Consider the pseudocode below

```
INPUT A
INPUT B
INPUT C
INPUT D
INPUT E
INPUT F
INPUT G
INPUT H
INPUT I
INPUT J
INPUT K
T = A + B + C + D + E + F + G + H + I + J + K
OUTPUT T/11
```

Write a Java code to implement the code above using the concept of ARRAYS