

Annexes : Qu'affiche le programme suivant ?

```
public class Chance {  
  
    private int a;  
    private int b;  
    private int c;  
  
    public Chance ()  
    {  
        setA(0);  
        setB(0);  
        setC(0);  
    }  
  
    public Chance(int i)  
    {  
        setA(i);  
        setB(2*i);  
        setC(3*i);  
    }  
  
    public void affiche()  
    {  
  
        System.out.print("Chance:  
"+this.getA()+" "+this.getB()+"  
"+this.getC());  
    }  
}
```

```
    public boolean equals(Chance c)  
    {  
        return this == c;  
    }  
  
    public Chance clone()  
    {  
        return new Chance(2);  
    }  
  
    public int getC() {  
        return c;  
    }  
  
    public void setC(int c) {  
        this.c = c;  
    }  
  
    public int getB() {  
        return b;  
    }  
  
    public void setB(int b) {  
        this.b = b;  
    }  
  
    public int getA() {  
        return a;  
    }  
  
    public void setA(int a) {  
        this.a = a;  
    }  
}
```

```
public class Chance2 extends  
Chance {  
  
    private int d;  
  
    public Chance2() {  
  
        super(10);  
        this.d = 10;  
    }  
}
```

```
    public Chance2(int i) {  
        super();  
        this.d = i-2;  
    }  
  
    public boolean  
equals(Chance2 ch)  
    {  
        return (this.d ==  
ch.d);  
    }  
}
```

```

    }

    public void affiche()
    {
        super.affiche();
        System.out.println("
Chance 2: "+this.getD());
    }

```

```

    public int getD() {
        return d;
    }

    public void setD(int d) {
        this.d = d;
    }
}

```

```

public class Chance3 extends
Chance2 {
    public Chance3() {
        super();
    }

    public Chance3(int i) {
        super(i);
    }

    public boolean

```

```

equals(Chance3 ch)
{
    return
(this.getA()==ch.getA())&&(super.
equals(ch));
}

    public Chance3 clone()
    {
        return new Chance3();
    }
}

```

```

public class Affiche {
    public static void
main(String[] args) {
    Chance a1 = new Chance();
    Chance b1 = new Chance(10);
    Chance2 a2 = new Chance2();
    Chance2 b2 = new Chance2(10);
    Chance3 a3 = new Chance3();
    Chance3 b3 = new Chance3(10);

    a1.affiche();
    System.out.println();
    b1.affiche();
    System.out.println();
    a2.affiche();
    b2.affiche();
    a3.affiche();
    b3.affiche();
    Chance c1 = a1.clone();
    Chance3 c2 = a3.clone();
    Chance2 c3 = a2;
    c1.affiche();
    System.out.println();

```

```

        c2.affiche();
        c3.affiche();
        System.out.println(""+c1.equ
als(a1));
        System.out.println(""+c2.equ
als(a3));
        System.out.println(""+c2.equ
als(a2));
        System.out.println(""+(c1==a
1));
        System.out.println(""+(c2==a
2));
        System.out.println(""+(c2==a
3));

        System.out.println(""+(c3==a
2));
    }
}

```