

```
/**
 * Gestion d'une note d'un devoir.
 *
 * @author biech153 (Biersbach Chris) / gamca174 (Gamboa Carlos) / olial319 (Olinger Alex)
 * @version 31/01/2019 7:23:50
 * Classe: 3GIG
 */
public class Test
{
    /** La note du devoir. */
    private int mark;

    public int getMark()
    {
        return mark;
    }

    public void setMark(int pMark)
    {
        mark = pMark;
    }

    public void setRandomMark()
    {
        // Définit aléatoirement une nouvelle note entre 1 et 60 (limites comprises)
        int val = (int)(Math.random()*(60-1+1))+1; // ou mieux: (int)(Math.random()*60)+1
        setMark(val);
    }

    public String getEvaluation()
    {
        String res;

        if(mark >= 30)
        {
            res = "test passed";
        }
        else
        {
            res = "test failed";
        }

        return res;
    }

    public String getQualification()
    {
        String res = "";

        if (mark<10)
        {
            res = "very poor";
        }
        else
        {
            if (mark<20)
            {
                res = "poor";
            }
            else
            {
                if (mark<30)
                {
                    res = "insufficient";
                }
                else
                {
                    if (mark<40)
                    {
                        res = "sufficient";
                    }
                    else
                    {
                        if (mark<50)
                        {
                            res = "good";
                        }
                        else
                        {
                            res = "very good";
                        }
                    }
                }
            }
        }

        return res;
    }
}
```

```
/**
 * Testing the class Test (marks).
 *
 * @author    biech153 (Biersbach Chris) / gamca174 (Gamboa Carlos) / olial319 (Olinger Alex)
 * @version   31/01/2019 7:23:50
 * Classe:    3GIG
 */
public class TestMark
{
    /**
     * The main entry point for executing this program.
     */
    public static void main(String[] args)
    {
        Test t = new Test();

        t.setMark(1);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(9);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(10);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(11);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());

        t.setMark(19);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(20);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(21);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());

        t.setMark(29);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(30);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(31);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());

        t.setMark(39);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(40);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(41);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());

        t.setMark(49);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(50);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(51);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(59);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
        t.setMark(60);
        System.out.println("Mark: "+t.getMark()+" -> "+t.getQualification());
    }
}
```