

```
/**
package week1_homework1;

import java.util.Scanner;

/**
 * @author gayat
 *
 */
public class find_Median {

    //Take input ,read, compare and sort in ascending order
    public static void main(String[] args) {
        double lownum,middlenum,highnum;
        Scanner in = new Scanner(System.in);
        System.out.println("Please enter number a: ");
        double a = in.nextDouble();

        lownum=middlenum=highnum= a;

        System.out.println("Please enter number b: ");
        double b = in.nextDouble();
        if(lownum > b) lownum = b;
        else if(b > highnum) highnum = b;
        else middlenum = b;

        System.out.println("Please enter number c: ");
        double c = in.nextDouble();
        if(lownum > c) {
            middlenum = lownum;
            lownum = c;
        }else if(c > highnum){
            middlenum = highnum;
            highnum = c;
        }else middlenum = c;

        System.out.println(lownum+" "+ middlenum + " "+highnum);
        //double []m= {lownum, middlenum, highnum};

        //call method and print median
        //double med = median(m);

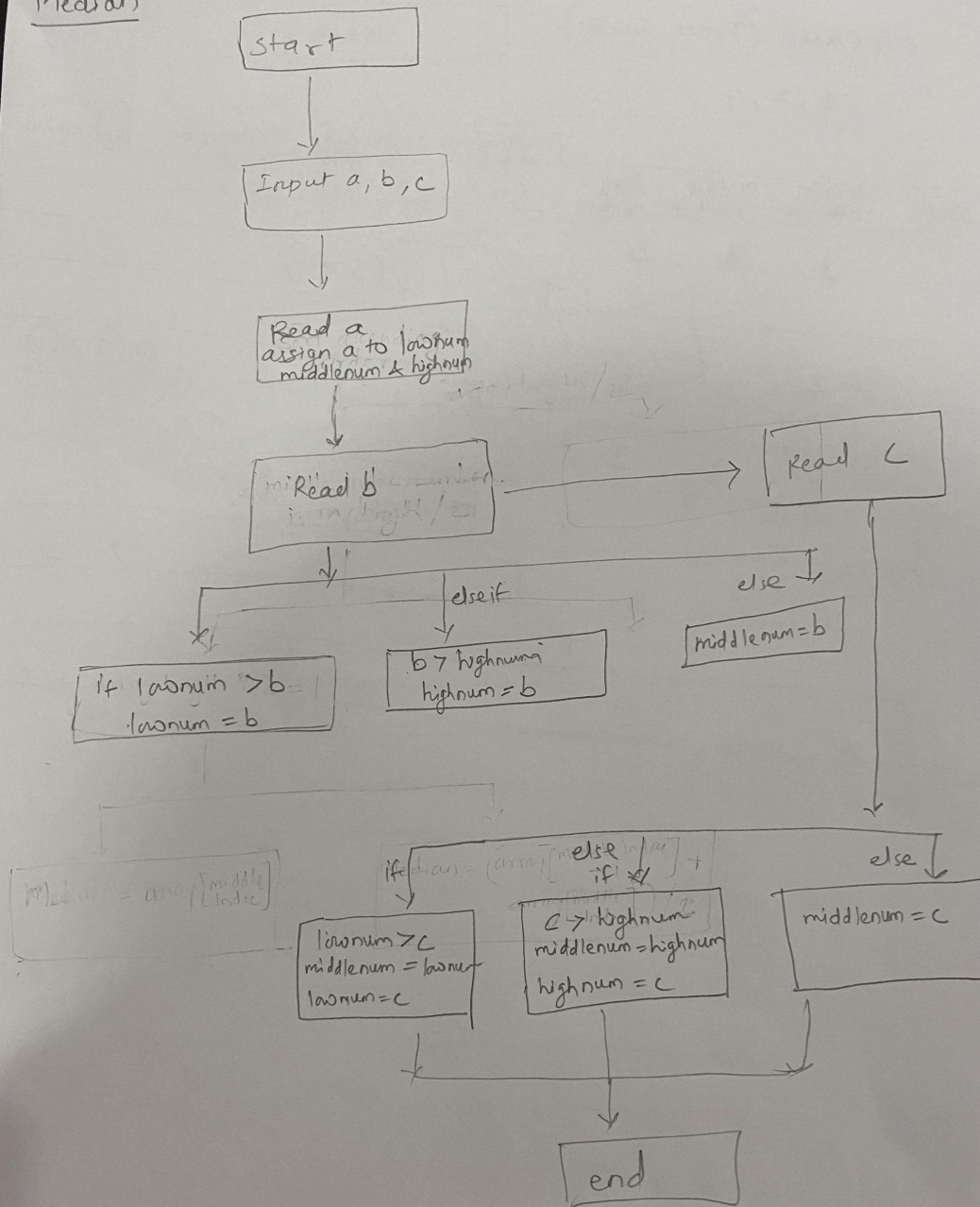
        System.out.println("Median is"+ " " + middlenum);

    }
}
```

```
Problems @ Javadoc Declaration Console Debug
<terminated> find_Median [Java Application] C:\Users\gayat\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86
Please enter number a:
3
Please enter number b:
2
Please enter number c:
4
2.0 3.0 4.0
Median is 3.0
```

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Median



Median (Trace Table)

3, 2, 4

step	lower number	middle number	high number	T	F	low num \rightarrow b	middle num	high num
3	3	3	3	(3 > 2) T		① (3 > 2)		
2					F			② (2 > 3)
2	2	3			F			③ 2 > 4
				T				④ 4 > 3
2	3	4						

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