

Quiz Trace Exception

```

public class testExceptions{
    static int number=3;
    public static int m1(int a){
        try{
            if(a%2==0) throw new ExceptionA ("even !");
            if(a++>0) throw new ExceptionA("m1 throws an ExceptionA");
            number++;
        }catch(ExceptionB e)
        {System.out.println(e.getMessage()+" ** catch m1");}
        finally{
            System.out.println("finally m1");
        }
        return 50;}

    public static String m2(){
        try{
            number = m1(number);
            if(number >0) throw new ExceptionB("more than zero");
            return "try";
        }
        catch(ExceptionB exp)
        { System.out.println(exp.getMessage()+" ** catch1 m2");
          return "catch1"; }
        catch(ExceptionA exp)
        { System.out.println(exp.getMessage()+" ** catch2 m2");
          return "catch2"; }
        finally{ System.out.println("finally m2 "+ number); }
    }
}

```

m1(n)
 m2
 m3
 main

```

public static void m3(){
    try{
        int num=Integer.parseInt(m2());
    }catch (NumberFormatException exp)
    {System.out.println("non-numeric String ");}

    public static void main(String args[]){
        try{m3();}
        catch(Exception e){ System.out.println("last catch");}}

    class ExceptionA extends RuntimeException {
        public ExceptionA (String m){
            super(m);} }
    class ExceptionB extends ExceptionA {
        public ExceptionB (String m){
            super(m);} }
}

```

Output:

finally m1 ①
 m1 throws an ExceptionA ** catch2 m2 ①
 finally m2 3 ①
 non-numeric string ①