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OJ - LAB

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Program 8

```
import java.util.*;
class WrongAge extends Exception {
    int f, s;
    WrongAge (int fage, int sage)
    {
        f = fage;
        s = sage;
    }
    public String toString() {
        return "Please enter the correct ages as father's age can't  
be less than or equal to the son's age.";
    }
}
class NegativeAge extends Exception {
    int x;
    NegativeAge (int fage) {
        x = fage;
    }
    public String toString() {
        return "Age can't be a negative value.";
    }
}
class Father
{
    int fage;
    Scanner in = new Scanner(System.in);
    Father() throws NegativeAge
    {
        System.out.println("Enter the father's age:");
    }
}
```

classmate

```

    fage = in.nextInt();
    if (fage < 0)
    {
        throw new NegativeAge(fage);
    }
}

class Son extends Father
{
    int age;
    Scanner in = new Scanner(System.in);
    Son() throws NegativeAge, WrongAge {
        super();
        System.out.println("Enter the son's age:");
        age = in.nextInt();
        if (age < 0)
        {
            throw new NegativeAge(age);
        }
        if (age >= fage) {
            throw new WrongAge(fage, age);
        }
    }
}

class AgeDisplay
{
    public static void main(String args[])
    {
        try {
            Son s = new Son();
        }
        catch (NegativeAge n)
        {
            System.out.println("Exception: " + n);
        }
        catch (WrongAge w) {
            System.out.println("Exception: " + w);
        }
    }
}

```