

```
import java.util.Scanner;  
class Father extends Exception
```

```
{
```

```
    int f - age;
```

```
    Father (int a)
```

```
{
```

```
        f - age = a;
```

```
}
```

```
    public String toString()
```

```
{
```

```
        return "wrong age";
```

```
}
```

```
}
```

```
class Son extends Father
```

```
{
```

```
    int S - age;
```

```
    Son (int a, int b)
```

```
{
```

```
        super(a);
```

```
        S - age = b;
```

```
}
```



```
public String toString()
```

```
{
    return "wrong age";
}
```

```
class exceptionmain
```

```
{
    static void check1(int a) throws Father
```

```
{
    System.out.println("father's age: " + a);
```

```
    if (a < 0)
```

```
        throw new Father(a);
```

```
    System.out.println("father's age is valid");
}
```

```
static void check2(int a, int b) throws Son
```

```
{
    System.out.println("father's age: " + a);
```

```
    System.out.println("son's age: " + b);
```

```
    if (b >= a)
```

```
        throw new Son(a, b);
```

```
    System.out.println("Son's and father's age is valid");
}
```

```
public static void main (String args [])
```

```
{
```

```
    int a1, a2, a3;
```

```
    Scanner XX = new Scanner (System.in);
```

```
    try
```

```
{
```

```
    System.out.println("enter the father's age");
```

```
    a1 = XX.nextInt();
```

```
    check1(a1);
```

```
}
```

```
    catch (Father e)
```

```
{
```

```
    System.out.println();
```

```
    try
```

```
{
```

```
    System.out.println("enter the father's age and son's age");
```

```
    a2 = XX.nextInt();
```

```
    a3 = XX.nextInt();
```

```
    @3
```

```
    check2(a2, a3);
```

```
}
```

```
    catch (son e)
```

```
{
```

```
    System.out.println("caught : " + e);
```

```
}
```