import java.util.\*;

class WrongAge extends Exception

{

public String getMessage()

{

return "Age Cannot Be Negative";

}

}

class InvalidAge extends Exception

{

public String getMessage()

{

return "Son's Age cannot be greater than Father's!";

}

}

class Father

{

Scanner s = new Scanner(System.in);

int fatherAge;

Father() throws WrongAge

{

System.out.print("Enter the Father's Age: ");

fatherAge = s.nextInt();

try

{

if(fatherAge<0)

throw new WrongAge();

}

catch(WrongAge e1)

{

System.out.println(e1.getMessage());

System.exit(0);

}

}

}

class Son extends Father

{

int sonAge;

Son() throws WrongAge,InvalidAge

{

super();

System.out.print("Enter the Son's Age: ");

sonAge = s.nextInt();

try

{

if(sonAge<0)

throw new WrongAge();

}

catch(WrongAge e2)

{

System.out.println(e2.getMessage());

}

try

{

if(sonAge>fatherAge)

throw new InvalidAge();

}

catch(InvalidAge e3)

{

System.out.println(e3.getMessage());

}

}

}

class Agecheck

{

public static void main(String[] args) throws WrongAge,InvalidAge

{

new Son();

}

}

