// EXCEPTION PROGRAM

```java
import java.io.*;
class list3
{
        public static void main(String args[])throws IOException
        {
                BufferedReader in =new BufferedReader(new InputStreamReader(System.in));
                System.out.println("ENTER A:");
                int a = Integer.parseInt(in.readLine());
                System.out.println("ENTER B:");
                int b = Integer.parseInt(in.readLine());
                int c;
                try
                {
                        c = b - a;
                        if (c > 32768)
                        {
                                throw new ArithmeticException("PAY OUT BOUNDS");
                        }
                        System.out.println("ANSWER:" + c);
                }
                catch (ArithmeticException e)
                {
                        System.out.println(e);
                }
        }
}
```

**OUTPUT:**

```
D:\jdk1.8.0_111\bin>javac list3.java

D:\jdk1.8.0_111\bin>java list3
ENTER A:
10
ENTER B:
50000
java.lang.ArithmeticException: PAY OUT BOUNDS
```