Problem

Java has 8 primitive data types: char, boolean, byte, short, int, long, float, and double. For this exercise, we'll work with the primitives used to hold integer values (byte, short, int, and long):

- A byte is an 8-bit signed integer.
- A short is a 16-bit signed integer.
- An int is a 32-bit signed integer.
- A long is a 64-bit signed integer.

Given an input integer, you must determine which primitive data types are capable of properly storing that input.

To get you started, a portion of the solution is provided for you in the editor.

Reference: https://docs.oracle.com/javase/tutorial/java/nutsandbolts/datatypes.html

Input Format

The first line contains an integer, T, denoting the number of test cases.
Each test case, T, is comprised of a single line with an integer, n, which can be arbitrarily large or small.

Output Format

For each input variable n and appropriate primitive $dataType$, you must determine if the given primitives are capable of storing it. If yes, then print:

```
n can be fitted in:
* dataType
```

If there is more than one appropriate data type, print each one on its own line and order them by size (i.e.: $byte < short < int < long$).

If the number cannot be stored in one of the four aforementioned primitives, print the line:

```
n can't be fitted anywhere.
```

Sample Input

```
5
-150
150000
```

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Change Theme Language Java 7

```
import java.util.*;
import java.io.*;
class Solution{
    public static void main(String []argh)
    {
        Scanner sc = new Scanner(System.in);
        int t=sc.nextInt();
        for(int i=0;i<t;i++)
        {
            try
            {
                long x=sc.nextLong();
                System.out.println(x+" can be fitted in:");
                if(x>=-128 && x<=127)System.out.println("* byte");
                 if (x>=-32768 && x<=32767)System.out.println("* short");
                 if (x>=-2147483648 && x<=2147483647)System.out.println("* int");
                 if (x>=-9223372036854775808L && x<=9223372036854775807L)System.out.println("* long");
            }
            catch(Exception e)
            {
                System.out.println(sc.next()+" can't be fitted anywhere.");
            }
        }
    }
}
```

Line: 25 Col: 2

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```

Sample Input

```
5
-150
150000
```

```
24      }
25  }
```

Line: 25 Col: 2

Upload Code as File | Test against custom input | Run Code | Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Input (stdin) Download

```
5
-150
150000
1500000000
21333333333333333333333333333333333333
-100000000000000
```

Your Output (stdout)

```
-150 can be fitted in:
* short
* int
* long
```

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25  }
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Sample Test case 0

```
1500000000 can be fitted in:
* int
* long
213333333333333333333333333333333333 can't be fitted anywhere.
-100000000000000 can be fitted in:
* long
```

Expected Output | Download

```
-150 can be fitted in:
* short
* int
* long
150000 can be fitted in:
```

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150000
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25  }
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```
-150 can be fitted in:
* short
* int
* long
150000 can be fitted in:
* int
* long
1500000000 can be fitted in:
* int
* long
21333333333333333333333333333333333333 can't be fitted anywhere.
-10000000000000 can be fitted in:
* long
```

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```
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-150
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```

Line: 25 Col: 2

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You have earned 10.00 points!
You are now 22 points away from the 3rd star for your java badge.

27% 58/80

Congratulations
You solved this challenge. Would you like to challenge your friends?

Next Challenge

Test case 0
Test case 1
Test case 2
Test case 3

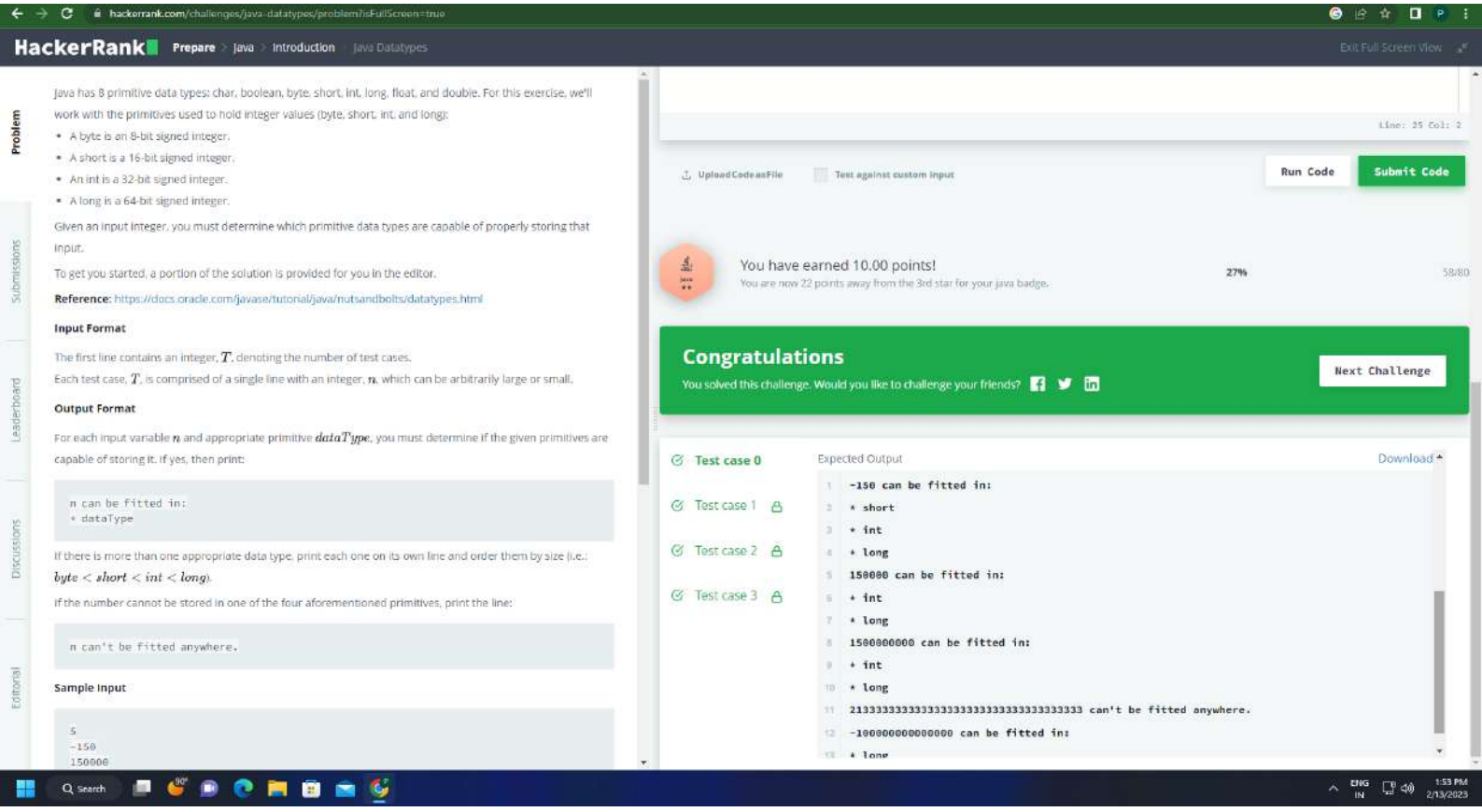
Compiler Message

Success

Input (stdin) Download

```
5
-150
150000
1500000000
21333333333333333333333333333333333
-100000000000000
```

Expected Output Download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150000
Line: 25 Col: 2
Upload Code as File
Test against custom input
Run Code
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27%
58/80
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Expected Output
Download
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* short
* int
* long
150000 can be fitted in:
* int
* long
1500000000 can be fitted in:
* int
* long
21333333333333333333333333333333333 can't be fitted anywhere.
-100000000000000 can be fitted in:
* long
Search
ENG
IN
1:53 PM
2/13/2023