



Java Datatypes ★

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Problem

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Editorial 

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

[illegible]

Sample Output

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



213333333333333333333333333333 is very large and is outside of the allowable range of values for the primitive data types discussed in this problem.

Line: 31 Col: 1

Submit Code

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Next Challenge

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

[illegible]