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Editorial

★★★★★

- 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.

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

Each test case, T , is comprised of a single line with an integer, n , which can be arbitrarily large or small.

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:

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

Sample Input

[illegible]

213333333333333333333333333333333333 can't be fitted anywhere.



Explanation

`21333333333333333333333333333333` is very large and is outside of the allowable range of values for the primitive data types discussed in this problem.

Line: 37 Col: 1

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