



Editorial

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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

[illegible]

Explanation

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

⋮

Line: 41 Col: 1

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