

Discussion

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Code Golf - Encoder

We need to send some coordinates to a spaceship through a laser beam. To do that we have to encode it, and beam it out into space. Your mission is to implement the encoder with a compression standard. As usual shortest solution wins.

Task

You will receive a string of comma-separated integers and you will return a new string of comma-separated integers and sequence descriptors.

Input

"0,2,4,5,5,5,5,3,4,5"

Output

"0-4/2,5*5,3-5"

Note

- Compression happens left to right
- A sequence of 2 or more identical numbers is shortened as number*count
 - example: "5,5,5" is compressed to "5*3"
- A sequence of 3 or more consecutive numbers is shortened as first-last. This is true for both ascending and descending order
 - example: "1,3,4,5" is compressed to "1,3-5"
- A sequence of 3 or more numbers with the same interval is shortened as first-last/interval.
 - example: "0,2,4,6" is compressed to "0-6/2"
- Use [this code](#) to check the result length
- You also can [use this test case here](#)

Rules

1. The signature of the contest entry MUST be:

```
Class dc.golf.Encoder {  
  
ClassMethod Compress(a)  
{  
}  
  
}
```

2. It is forbidden to modify class/signature, including but not limited to:

- Adding inheritance
- Setting default argument values
- Adding class elements (Parameters, Methods, Includes, etc).

3. It is forbidden to refer to non-system code from your entry. For example, this is not a valid entry:

```
ClassMethod Compress(a)
{
  q ##class(myPackage.myClass).test(a)
}
```

4. The use of \$ZWPACK and \$ZWBPACK is also discouraged.

[#Contest #InterSystems IRIS](#)

Source URL: <https://community.intersystems.com/post/code-golf-encoder-0>