



Write a TLV processor in Java

Process TLVs with the following format

- Format: **TYPE(6)-LENGTH(4)-VALUE**
- **Type** - fixed 6 chars length. Defines the type of processing required.
- **Length** - fixed 4 chars (represented as text) length of the value.
- **Value** - the actual data to be processed of length 'Length' above.

Processing requirements

- For Type UPPRCS: convert the value to uppercase, if already uppercase do nothing.
- For Type REPLCE: replace the value with fixed string "THIS STRING"
- For any other type indicate an error "Type not valid" and continue processing.
- Output should be printed as the TLVs are processed.
- Input is specified on StdIn and output is expected on StdOut.
- Assume all data is in ascii.
- Assume all data will always follow the format specified, i.e. no malformed TLVs.

Coding requirements

- Create a jar file name **tlvprocessor.jar** with all the dependencies used in the project.
- Design for extensibility, which will help to easily add
 - New input-output types like network streams
 - New processors like LOWRCS

Sample Test Cases

This is one of test case suite that will be used for evaluation. Please test your code against these before submitting. All test cases **MUST** pass before the code can be accepted.

The test is run as follow:

java -jar tlvprocessor.jar < input

Note: The input is still from STDIN.

Input:

UPPRCS-0005-abcde

REPLCE-0003-123

UPPRCS-0008-AbcdefghREPLCE-0003-123REPLCE-0001-Z

TAG001-0012-abcdefgh1234

UPPRCS-0004-1234

Output:

UPPRCS-ABCDE

REPLCE-THIS STRING

UPPRCS-ABCDEFGH

REPLCE-THIS STRING

REPLCE-THIS STRING

Type not valid

UPPRCS-1234