

Use the following program that includes the use of a factorial function for your test case....

ONLY RUN THE PROGRAM FOR THE INPUT VALUES 3 AND 2

Note that you can assume the bytecode text file is

fine - DO NOT check for bad codes, etc.

DUMP ON

LIT 0 i

LIT 0 j

DUMP OFF

LABEL whileLoop

LIT 12

LIT 12

BOP ==

FALSEBRANCH endWhile

ARGS 0

CALL Read

ARGS 1

DUMP ON

CALL fact

DUMP OFF

ARGS 1

CALL Write

DUMP ON

STORE 1 j

DUMP OFF

GOTO whileLoop

LABEL endWhile

HALT

LABEL fact

DUMP OFF

LOAD 0 factArg

LIT 2

BOP <

FALSEBRANCH else<<4>>

LIT 1

DUMP ON

RETURN fact

LABEL else<<4>>

LOAD 0 factArg

LOAD 0 factArg

LIT 1

BOP -

ARGS 1

DUMP ON

CALL fact

DUMP OFF

BOP \*

DUMP ON

RETURN fact

LABEL Read

READ

RETURN

LABEL Write

LOAD 0 writeFormal

WRITE

RETURN