TEST RESULT

INPUT FILE

Factorial.x.cod

OUTPUT

```
GOTO start<<1>>
[]
LABEL start<<1>>
[]
GOTO continue<<3>>
[]
LABEL continue<<3>>
[]
ARGS 0
[][]
CALL Read    Read()
[][]
LABEL Read
[][]
Please enter an integer : 4
READ
[][4]
RETURN 4
[4]
ARGS 1
[][4]
CALL factorial<<2>>    factorial(4)
[][4]
LABEL factorial<<2>>
[][4]
LOAD 0 n    <load n>
[][4,4]
LIT 2
[][4,4,2]
BOP <
[][4,0]
FALSEBRANCH else<<4>>
[][4]
LABEL else<<4>>
[][4]
LOAD 0 n    <load n>
[][4,4]
LOAD 0 n    <load n>
[][4,4,4]
LIT 1
[][4,4,4,1]
BOP -
[][4,4,3]
ARGS 1
```

[][4,4][3]
CALL factorial<<2>>   factorial(3)
[][4,4][3]
LABEL factorial<<2>>
[][4,4][3]
LOAD 0 n   <load n>
[][4,4][3,3]
LIT 2
[][4,4][3,3,2]
BOP <
[][4,4][3,0]
FALSEBRANCH else<<4>>
[][4,4][3]
LABEL else<<4>>
[][4,4][3]
LOAD 0 n   <load n>
[][4,4][3,3]
LOAD 0 n   <load n>
[][4,4][3,3,3]
LIT 1
[][4,4][3,3,3,1]
BOP -
[][4,4][3,3,2]
ARGS 1
[][4,4][3,3][2]
CALL factorial<<2>>   factorial(2)
[][4,4][3,3][2]
LABEL factorial<<2>>
[][4,4][3,3][2]
LOAD 0 n   <load n>
[][4,4][3,3][2,2]
LIT 2
[][4,4][3,3][2,2,2]
BOP <
[][4,4][3,3][2,0]
FALSEBRANCH else<<4>>
[][4,4][3,3][2]
LABEL else<<4>>
[][4,4][3,3][2]
LOAD 0 n   <load n>
[][4,4][3,3][2,2]
LOAD 0 n   <load n>
[][4,4][3,3][2,2,2]
LIT 1
[][4,4][3,3][2,2,2,1]
BOP -
[][4,4][3,3][2,2,1]
ARGS 1
[][4,4][3,3][2,2][1]
CALL factorial<<2>>   factorial(1)
[][4,4][3,3][2,2][1]
LABEL factorial<<2>>
[][4,4][3,3][2,2][1]
LOAD 0 n   <load n>

```
[][4,4][3,3][2,2][1,1]
LIT 2
[][4,4][3,3][2,2][1,1,2]
BOP <
[][4,4][3,3][2,2][1,1]
FALSEBRANCH else<<4>>
[][4,4][3,3][2,2][1]
LIT 1
[][4,4][3,3][2,2][1,1]
RETURN factorial<<2>>   EXIT factorial : 1
[][4,4][3,3][2,2,1]
BOP *
[][4,4][3,3][2,2]
RETURN factorial<<2>>   EXIT factorial : 2
[][4,4][3,3,2]
BOP *
[][4,4][3,6]
RETURN factorial<<2>>   EXIT factorial : 6
[][4,4,6]
BOP *
[][4,24]
RETURN factorial<<2>>   EXIT factorial : 24
[24]
ARGS 1
[][24]
CALL Write    Write(24)
[][24]
LABEL Write
[][24]
LOAD 0 dummyFormal    <load dummyFormal>
[][24,24]
24
WRITE
[][24,24]
RETURN 24
[24]
POP 3
[]
HALT
[]

Process finished with exit code 0
```