

Input:

NOT T AND T OR F

Output:

F

*Propositional Logic Parsing*

Input:

$1 + (1 + 1) * (1 + 1 + 1)$

Output:

7

*Integer Arithmetic*

Input:

if cond then v = c else if cond then v = c else v = v

Output:

Legal Input

*If-then-else language Parsing*

Read Head    Write Head

Input Tape:

A C **D** A

Output Tape:

A C **D**

*Copy*

Read Head    Write Head

Input Tape:

A A **D** D

Output Tape:

A **D**

*Duplicate Input*

Read Head    Write Head

Input Tape:

1	3	<b>1</b>	3
2	1	<b>2</b>	1

Output Tape:

3 4 **3**

*Reverse Addition*

Read Head    Write Head

Input Tape:

1	3	<b>1</b>	3
			2

Output Tape:

2 6 **2**

*Single Multiplication*