

postfix:

push \$ra

fp → | old fp
ra

push \$fp

move \$fp, \$sp # frame pointer

pfloop:

jal gettoken

bltz \$v1, end of string

bgtz \$v1, operate

push \$v0

push integer

j pfloop

operate:

beg \$op, \$fp, empty

need 2 nums on stack.

pop \$t1

2nd operand.

beg \$sp, \$fp, empty

pop \$t0

first operand

bne \$v1, '+', minus

do the op.

add \$t0, \$t0, \$t1

j store

minus:

bne \$v1, '-', mult

sub \$t0, \$t0, \$t1

j store

mult:

bne \$v1, '*', div

mul \$t0, \$t0, \$t1

j store

div:

div \$t0, \$t0, \$t1

store:

push \$t0

j pfloop

end of string:

beg \$fp, \$sp, empty

error exit

pop \$v0

result

pop \$fp

pop \$ra

jr \$ra