ror (x, c, 1) in zip(feature_pyramid, military) class_preds.append(c(x).permute(*, 1, 1, 1, 1) loc_preds.append(1(x).permute(*, 2, 3, 3)

INFIX TO PREFIX

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- Reverse the infix expression
 - Infix: 1 + 2 * 3 + 4
 - Reversed infix: 4 + 3 * 2 + 1
- Convert the reversed infix expression to postfix
 - Reversed infix: 4 + 3 * 2 + 1
 - Postfix: 4 3 2 * 1 + +
- Reverse the postfix expression to get the prefix expression
 - Postfix: 4 3 2 * 1 + +
 - Prefix: + + 1 * 234

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed:

Stack:

Output:

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4+3*2+1

Stack:

Output:

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4 + 3 * 2 + 1

Stack:

Output: 4

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4 + 3 * 2 + 1

Stack: +

Output: 4

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4 + 3 * 2 + 1

Stack: +

Output: 43

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4+3*2+1

Stack: + *

Output: 43

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4 + 3 * 2 + 1

Stack: + *

Output: 432

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4 + 3 * 2 + 1

Stack: +

Output: 4 3 2 *

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4+3*2+1

Stack: ++

Output: 4 3 2 *

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4 + 3 * 2 + 1

Stack: ++

Output: 432 * 1

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4+3*2+1

Stack: +

Output: 432 * 1 +

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4+3*2+1

Stack:

Output: 432*1++

Example 1:

Infix: 1 + 2 * 3 + 4

Reversed: 4+3*2+1

Stack:

Output: 432*1++

Prefix: + + 1 * 2 3 4

Example 2:

Infix: (300 + 23) * (43 - 21) / (84 + 7)

Reversed:

Stack:

Output:

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7+84)/(21-43)*(23+300)

Stack:

Output:

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: (

Output:

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: (

Output: 7

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: (+

Output: 7

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: (+

Output: 784

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: (

Output: 784+

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack:

Output: 784+

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
Reversed: (7 + 84) / (21 - 43) * (23 + 300)
Stack: /
Output: 7 \cdot 84 +
Prefix:
```

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: /(

Output: 784+

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: /(

Output: 784 + 21

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: /(-

Output: 784 + 21

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: /(-

Output: 784 + 2143

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7+84)/(21-43)*(23+300)

Stack: /(

Output: 784 + 2143 -

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
Reversed: (7 + 84)/(21 - 43) * (23 + 300)
Stack: /
Output: 7 \cdot 84 + 21 \cdot 43 -
Prefix:
```

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7+84)/(21-43)*(23+300)

Stack: /*

Output: 784 + 2143 -

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: /* (

Output: 784 + 2143 -

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: /* (

Output: 784 + 2143 - 23

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: /* (+

Output: 784 + 2143 - 23

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7 + 84)/(21 - 43) * (23 + 300)

Stack: /* (+

Output: 784 + 2143 - 23300

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7+84)/(21-43)*(23+300)

Stack: /* (

Output: 784 + 2143 - 23300 +

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7+84)/(21-43)*(23+300)

Stack: /*

Output: 784 + 2143 - 23300 +

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
Reversed: (7 + 84)/(21 - 43) * (23 + 300)
Stack: /
Output: 784 + 2143 - 23300 + *
Prefix:
```

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7+84)/(21-43)*(23+300)

Stack:

Output: 7.84 + 21.43 - 23.300 + */

Example 2:

```
Infix: (300 + 23) * (43 - 21) / (84 + 7)
```

Reversed: (7+84)/(21-43)*(23+300)

Stack:

Output: 784 + 2143 - 23300 + */

Prefix: /* + 30023 - 4321 + 847

Example 3:

Infix: (4+8)*(6-5)/((3-2)*(2+2))

Reversed:

Stack:

Output:

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack:

Output:

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
Reversed: ((2+2)*(2-3))/(5-6)*(8+4)
Stack:
```

Output:

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: ((

Output:

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: ((

Output: 2

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: ((+

Output: 2

Example 3:

Infix: (4+8)*(6-5)/((3-2)*(2+2))

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: ((+

Output: 22

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: ((

Output: 22+

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: (

Output: 22+

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: (*

Output: 22+

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: (* (

Output: 22+

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: (* (

Output: 22+2

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: (* (-

Output: 22+2

Example 3:

Infix: (4+8)*(6-5)/((3-2)*(2+2))

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: (* (-

Output: 22 + 23

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed:
$$((2+2)*(2-3))/(5-6)*(8+4)$$

Output:
$$22 + 23 -$$

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed:
$$((2+2)*(2-3))/(5-6)*(8+4)$$

Output:
$$22 + 23 -$$

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: (

Output: 22 + 23 - *

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack:

Output: 22 + 23 - *

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
Reversed: ((2+2)*(2-3))/(5-6)*(8+4)
Stack: /
Output: 22+23-*
Prefix:
```

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: /(

Output: 22 + 23 - *

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: /(

Output: 22 + 23 - *5

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: /(-

Output: 22 + 23 - *5

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed:
$$((2+2)*(2-3))/(5-6)*(8+4)$$

Output:
$$22 + 23 - *56$$

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed:
$$((2+2)*(2-3))/(5-6)*(8+4)$$

Output:
$$22 + 23 - *56 -$$

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
Reversed: ((2+2)*(2-3))/(5-6)*(8+4)
Stack: /
Output: 22+23-*56-
Prefix:
```

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed:
$$((2+2)*(2-3))/(5-6)*(8+4)$$

Output:
$$22 + 23 - *56 -$$

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed:
$$((2+2)*(2-3))/(5-6)*(8+4)$$

Output:
$$22 + 23 - *56 -$$

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed:
$$((2+2)*(2-3))/(5-6)*(8+4)$$

Output:
$$22 + 23 - *56 - 8$$

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: /* (+

Output: 22 + 23 - *56 - 8

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed:
$$((2+2)*(2-3))/(5-6)*(8+4)$$

Output:
$$22 + 23 - *56 - 84$$

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: /* (

Output: 22 + 23 - *56 - 84 +

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack: /*

Output: 22 + 23 - *56 - 84 +

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
Reversed: ((2+2)*(2-3))/(5-6)*(8+4)
Stack: /
Output: 22+23-*56-84+*
Prefix:
```

Example 3:

Infix: (4+8)*(6-5)/((3-2)*(2+2))

Reversed: ((2+2)*(2-3))/(5-6)*(8+4)

Stack:

Output: 22 + 23 - *56 - 84 + */

Example 3:

```
Infix: (4+8)*(6-5)/((3-2)*(2+2))
```

Reversed:
$$((2+2)*(2-3))/(5-6)*(8+4)$$

Stack:

Output:
$$22 + 23 - *56 - 84 + */$$

Prefix:
$$/* + 48 - 65* - 32 + 22$$

ror (x, c, 1) in zip(feature_pyramid, military) class_preds.append(c(x).permute(*, 1, 1, 1, 1) loc_preds.append(1(x).permute(*, 2, 3, 3)

INFIX TO PREFIX

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