

## INFIX TO POSTFIX

```
def expression(n):
```

```
    def precedence(operator):
```

```
        dict1 = {'+': 1, '-': 1, '*': 2, '/': 2, '^': 3}
```

```
        return dict1.get(operator, 0)
```

```
    def check(op1, op2):
```

```
        return precedence(op1) >= precedence(op2)
```

```
    postfix = []
```

```
    stack = []
```

```
    for char in n:
```

```
        if char.isalnum():
```

```
            postfix.append(char)
```

```
        elif char == '(':
```

```
            stack.append(char)
```

```
        elif char == ')':
```

```
            while stack and stack[-1] != '(':
```

```
                postfix.append(stack.pop())
```

```
            stack.pop()
```

```
        else:
```

```
            while stack and stack[-1] != '(' and check(stack[-1], char):
```

```
                postfix.append(stack.pop())
```

```
            stack.append(char)
```

```
    while stack:
```

```
postfix.append(stack.pop())
```

```
return ".join(postfix)
```

```
n = input()
```

```
result = expression(n)
```

```
print(result)
```