1. (1 point) Name:

CS 315 - Programming Languages
Fall 2023-2024
Section 3
Quiz 2

2. (99 points)

A scanner is built from the following lex specification.

```plaintext
%option main
digit   [0-9]
sign    [+ -]
%
[*/\%+-]    printf("XX ");
{sign}?{digit}+    printf("YY ");
{sign}?{digit}*(\.)?{digit}+    printf("ZZ ");
```

What is the output of this scanner for the following input?

-3
+4-5
-1-3/-7.1
A = -6+2*3.14/+275

Answer:
YY
YY YY
YY YY XX ZZ
YY YY XX ZZ XX YY