1. (40 points) Name:

CS 315 - Programming Languages
Spring 2018-2019
Section 2
Quiz 2

2. (30 points) Consider the following lex specification:

```c
%option main
%
[+-]?[0-5]+ printf("[A %s]", yytext);
[+-]*[6-9]* printf("[B %s]", yytext);
while|do|endif|if|else printf("<RESERVED_WORD>"酊);
;
```

What will be the output if we supply the following input to the compiled executable?

Can you calculate -789+123? while doing this you can take PI as 3.14, if you want

```c
```

3. (30 points) Consider the following lex specification:

```c
%option main
%
a+b? { printf ("x"); }
a*b? { printf ("y"); }
. { printf ("z"); }
```

Give an example input so that the scanner will produce yx.

```c
ba
```

Give an example input so that the scanner will produce xy.

```c
abb
```