2. (70 points) Consider the following lex specification:

```
%option main
%
[+][-]?[0-4]* printf("[S: %s]", yytext);
[+][-]*[5-9]* printf("[B: %s]", yytext);
while|do|if|else printf("<RES>");
;

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

Please calculate -67+12? while doing this you can consider PI as 3, if you want

[B: -67][S: +12]<RES><RES>[S: 3]<RES >