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YACC program which accept strings that starts and ends with 0 or 1

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Problem: Write a YACC program which accept strings that starts and ends with Zero or One

Explanation:

YACC (Yet another Compiler-Compiler) is the standard parser generator for the Unix operating system. An open source program, yacc generates code for the parser in the C programming language. The acronym is usually rendered in lowercase but is occasionally seen as YACC or Yacc.

Examples:

Input: 001100

Output: Sequence Accepted

Input: 1001001

Output: Sequence Accepted

Input: 0011101

Output: Sequence Rejected

Input: 100110

Output: Sequence Rejected

Lexical Analyzer Source Code:

```
%{
  extern int yylval;
%%
```

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Got It!

```
1 {yylval = 1; return ONE;}
. |\n {yylval = 2; return 0;}

%%
```

Parser Source Code:

```
%{
  #include<stdio.h>
  #include <stdlib.h>
  void yyerror(const char *str)
   printf("\nSequence Rejected\n");
  }
%}
%token ZERO ONE
%%
r : s {printf("\nSequence Accepted\n\n");}
s : n
| ZERO a
ONE b
a:na
ZERO
b : n b
ONE
n : ZERO
ONE
%%
#include"lex.yy.c"
```

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```
yyparse();
printf("\n");
return 0;
}
```

Output:

```
thakur@thakur-VirtualBox:-/Documents/yacc5 lex prog01.1
thakur@thakur-VirtualBox:-/Documents/yacc5 lex prog01.1
thakur@thakur-VirtualBox:-/Documents/yacc5 yacc prog01.y
prog01.y183 parser name defined to default : 'parse'
thakur@thakur-VirtualBox:-/Documents/yacc5 gcc y.tab.c -lfl -ly
//usr/share/bison-/ploson.cc: Infunction 'yyparse'
//usr/share/bison-+/ploson.cc: Infunction 'yyparse'
//usr/share/bison-+/ploson-+/ploson.cc: Infunction 'yyparse'
//usr/share/bison-+/ploson-+/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/ploson--/
```

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