

Lab -09

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Sec-B

Roll -220103021

Lex code-

```
%{  
/* Definition section */  
extern int yylval;  
%}  
  
/* Rule Section */  
%%  
  
0 {yylval = 0; return ZERO;}  
  
1 {yylval = 1; return ONE;}  
  
.\|n {yylval = 2; return 0;}  
  
%%
```

Yacc code-

```
%{  
/* Definition section */  
#include<stdio.h>  
#include <stdlib.h>  
void yyerror(const char *str)  
{  
printf("\nSequence Rejected\n");  
}
```

}

%}

%token ZERO ONE

/* Rule Section */

%%

r : s {printf("\nSequence Accepted\n\n");}
;

s : n
| ZERO a
| ONE b
;

a : n a
| ZERO
;

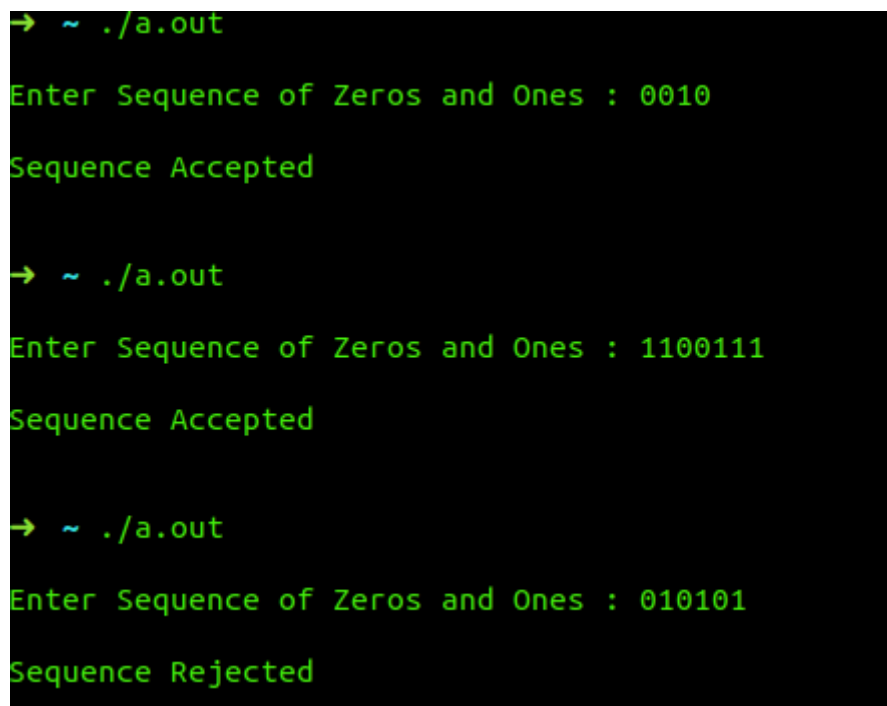
b : n b
| ONE
;

n : ZERO
| ONE
;

%%

```
#include "lex.yy.c"
//driver code
int main()
{
    printf("\nEnter Sequence of Zeros and Ones : ");
    yyparse();
    printf("\n");
    return 0;
}
```

Output-



```
→ ~ ./a.out
Enter Sequence of Zeros and Ones : 0010
Sequence Accepted

→ ~ ./a.out
Enter Sequence of Zeros and Ones : 1100111
Sequence Accepted

→ ~ ./a.out
Enter Sequence of Zeros and Ones : 010101
Sequence Rejected
```