

Q) Three address code.

quad.1

Q01

```
#include <stdio.h>
#include "quad.tab.h"
#include <string.h>
```

Q01

Q02

```
[a-z]([a-z]|[0-9]) * {strcpy (yyval.exp, yytext);
return var;}
```

[1+];

\n return 0;

.return yytext[0];

Q03

int yywrap()

{ return 0;

}

quad.y

Q04

```
#include <stdio.h>
#include <string.h>
```

struct quad

```
{ char op[5];
  char arg1[10];
  char arg2[10];
  char result[10];
} QUAD[30];
```

int i = 0, j;

{

no union

{ char exp[10];

}

no token <exp> VAR

no type <exp> SETF

no

S: E { printf("\n List of quadruples: ");

for (j = 0; j < i; j++)

printf("QoS {t op sit qd sit qd ln ");

QUAD[j].op, QUAD[j].arg1,

QUAD[j].arg2, QUAD[j].result);

};

E: E' T {

strcpy (QUAD[i].op, "T");

strcpy (QUAD[i].arg1, \$1);

strcpy (QUAD[i].arg2, \$2);

strcpy (QUAD[i].result, \$3);

IT { } ;

F: VAR { } ;

main

{

yparse();

getchar();

}

yparse (char *s) {

printf("QoS", s); }

t_1

2

xy