Ajit Medhekar

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Three Address Code Generati on Using Lex &

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Thursday, October 6, 2011

Three Address Code Generation Using Lex & Yacc

Prblem Statement: Write a program to generate three address code

for simple instruction.

```
/***** codegen.l *******/
    #include<stdio.h>
    #include"v.tab.h"
    char ch='a';
%}
%%
```

```
[0-9]+ {yylval.dval=yytext[0]; return NUM;}
\n {return 0;}
. {return yytext[0];}
%%
void yyerror(char* str)
     printf("\n%s",str);
char gencode(char ch1,char first,char op,char second)
     printf("\n%c = %c %c %c\n",ch,first,op,second);
     return ch++;
}
main()
{
     yyparse();
     return 0:
```

/****** codegen.y *******/

#include<stdio.h>

int aaa: %}

%union { char dval;

%token <dval> NUM %type <dval> E %left '+' '-' %left '*' '/'

statement : E {printf("\nt = %c\n This Three Address

Code Generate by AAA...\n",\$1);}

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iPad Pro Review: The Best Computer Apple Has Ever

TIME

Bottom line: The iPad Pro is best computer Apple has ever made. Apple's recently released iPad Pro is a lot of things: It's a really big iPad that does everything its predecessors have and then some. It's an elegant piece of industrial design, which ...

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Former Apple designers say the company has lost 'the

The Verge

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"The last six months of 'sideload' press — which Apple didn't try to stop — had convinced us that Apple would be receptive to an approach like this, but they seem to disagree," Herf commented. "I asked [Chipman] about open source used in a similar ...

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```
E: E'+' E {$$=gencode($$,$1,'+',$3);}
| E '-' E {$$=gencode($$,$1,'-',$3);}
 | E '*' E {$$=gencode($$,$1,'*',$3);}
 | E '/' E {$$=gencode($$,$1,'/',$3);}
 | '(' E ')' {$$=$2;}
 | NUM {$$=$1;}
%%
/***** OUTPUT *******/
[a38@localhost ~]$ ./a.out
1+2*5-6/4
a = 2 * 5
b = 1 + a
c = 6 / 4
d = b - c
t = d
This Three Address Code Generate by AAA...
[a38@localhost ~]$ ./a.out
1+2*(3+4)/5
a = 3 + 4
b = 2 * a
c = b / 5
d = 1 + c
t = d
This Three Address Code Generate by AAA...
Posted by AAA at 10:30 AM
                                >
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5 comments:
```



Mayur October 24, 2012 at 2:02 AM

give explanation...

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Replies



AAA October 24, 2012 at 2:33 AM

what explanation u want ??? there is no need of explanation ...

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Deepti Khanduja February 24, 2013 at 10:00 ΔM

This comment has been removed by the author.

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Rajeev February 28, 2013 at 7:19 AM

pls provide the commands and steps to exicute this code. $\;$

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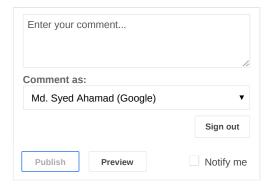


Amit Kumar October 13, 2015 at 10:04 PM

To execute this code:

- >> yacc -d codegen.y
- >> lex codegen.l
- >> gcc lex.yy.c y.tab.c -ll
- >> ./a.out

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