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<pre>%{ #define _UINT      1 #define _SINT      2 #define _REAL      3 #define _KEYWORD   4 #define _ID        5     int lines=0;     int filesno=0;     char **filename=NULL; }%  /* the state COMMENT is exclusive */  %x COMMENT uint  ([1-9][0-9]*) real  ([0-9]?\. [0-9]+) id     ([_a-zA-Z][_0-9a-zA-Z]*) ws     ([ \t]+) %% {ws}          { ; } "/**/"        { BEGIN(COMMENT); /* enter comment eating mode */ } &lt;COMMENT&gt;"/*" { BEGIN (INITIAL); /* exit comment eating mode */ } &lt;INITIAL,COMMENT&gt;\n { lines++; /* INITIAL is defined as 0 */ } &lt;COMMENT&gt;.\n   { ; /* eat comments */ }  int for do if then else {uint} {+-}{uint} {id} {real} . {     return _KEYWORD;     return _UINT;     return _SINT;     return _ID;     return _REAL;     printf("Error: Undefined string found!(%s)\n", yytext);     exit(1); }  %%  int yywrap(void){     static int i=1;      if(filesno&lt;=0) return 1;          /* no other input file */     if((yyin=fopen(filename[i], "r"))==NULL) {         printf("Cannot open input file %s.\n", filename[i]);         exit(1);     }     i++;     filesno--;     return 0; }  int main(int argc, char *argv[]) {     int res;      if(argc == 1) {         printf("Syntax: %s infile1 [infile2 ...]\n", argv[0]);         exit(1);     }     filesno=argc-1;          /* number of input files */     filename=argv;           /* names of input files */     yywrap();               /* opens the input first file */     while(res=yylex()){         switch(res){             case _UINT: printf("&lt;unsigned int&gt;"); break;</pre>		

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<pre>            case _SINT: printf("&lt;signed int&gt;"); break;             case _REAL: printf("&lt;real&gt;"); break;             case _KEYWORD: printf("&lt;keyword&gt;"); break;             case _ID: printf("&lt;ID&gt;");         }         printf("[%s]\n", yytext);     }     printf(" %d lines processed.\n", lines);     fclose(yyin);     return 0; }</pre>		