

```

extern int yylex();
extern int yywrap();
extern int yyparse();
%}

```

```

%token WH OP CP OCB CCB CMP SC ASG ID NUM COMMA OPR

```

```

%%

```

```

start:  swh | mwh;

```

```

swh:  WH OP cmpn CP stmt                                {printf("VALID SINGLE STATEMENT WHILE
LOOP\n");};

```

```

mwh:  WH OP cmpn CP OCB stmt CCB                        {printf("VALID MULTI STATEMENT WHILE
LOOP\n");};

```

```

cmpn:  ID CMP ID | ID CMP NUM;

```

```

stmt:  ID ASG ID OPR ID SC | ID ASG ID OPR NUM SC | ID ASG NUM OPR ID SC | ID ASG
NUM OPR NUM SC | ID ASG ID SC | ID ASG NUM SC

```

```

    | start                                {printf("NESTED INSIDE A ");}

```

```

    ;

```

```

%%

```

```

int yyerror(char *str)

```

```

{
    printf("%s", str);
}

```

```

main()

```

```

{
    yyparse();
}

```

OUTPUT: