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===== ./stringparser.h DATE [Sat Mar 18 22:45:55 2017] =====  
-----
```

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

```
#define SPECIAL "~!@#%&*()_+`-=[]\\{}|;:\<>?,./ "
```

```
//add a printf suppressor bool
```

```
char* stringparser(char *String,int suppress){
```

```
    int count=0;
```

```
    for ( int i=0 ; String[i] != NULL ; i++ ){
```

```
        count++;
```

```
    }
```

```
    if ( suppress != 1) {
```

```
        //set string for testing
```

```
        //print contents, charnumber, ascii val to stdout
```

```
        printf("DATA TRANSLATION:\n");
```

```
        for ( int i=0 ; String[i] != NULL ; i++ ){
```

```
            printf("\t%d %d %c\n",i,String[i],String[i]);
```

```
        }
```

```
        //print format key
```

```
        printf("COLUMN_FORMAT:\n\tCH# OSAV OSAC\nwhere:\n\tCH# - Character Number of the string starting at 0\n\tOSAV -
```

```
output string ASCII value\n\tOSAC - output string ASCII character\n");
```

```
        //return convert char pointer for use elsewhere
```

```
    }
```

```
    if ( count <= 97){
```

```
        String=String;
```

```
    }
```

```
    else {
```

```
        String="OVER_97_CHAR";
```

```
    }
```

```
    return String;
```

```
}
```

```
-----  
===== ./userparse.c DATE [Sat Mar 18 22:45:55 2017] =====  
-----
```

```
#include "stringparser.h"
```

```
int main1(char *in){  
    char *a;  
    a=stringparser(in,0);  
    printf("INPUT: %s\n",a);  
}
```

```
static int parse_opt(int key, char *arg,struct argp_state *state){  
    switch(key){  
        case 'i':  
            {  
                main1(arg);  
                break;  
            }  
        case 's':  
            main1(SPECIAL);  
            break;  
    }  
    return 0;  
}
```

```
int main(int argc, char **argv){  
    struct argp_option options[]={  
        {"input", 'i', "STRING", 0, "input string"},  
        {"predefined-special", 's', 0, 0, "predefined special string"},  
        {0}  
    };  
    struct argp argp = {options,parse_opt,0,0};  
    argp_parse(&argp,argc,argv,0,0,0);  
}
```

```
-----  
===== ./print-preview.sh DATE [Sat Mar 18 22:45:55 2017] =====  
-----
```

```
#!/bin/bash
```

```
header(){  
python3 << EOF  
import time  
a=len("$1")  
dash=""  
Dash=""  
final=""  
finalS=""  
for i in range(0,a):  
    dash=dash+" "  
    middle=dash+" "+"$1"+" DATE ["+time.ctime()+"] "+dash+"\n"  
for i in range(0,len(middle)):  
    final=final+"- "  
finalS=final+"\n"+middle+final+"\n"  
print(finalS)  
EOF  
}
```

```
localCheck() {  
    if [ -e "$1" ] ; then  
        header "$1"  
        cat "$1"  
        echo -e "\n"  
    else  
        echo "$1 Does not Exist"  
    fi  
}  
localCheck ./stringparser.h  
localCheck ./userparse.c  
localCheck ./print-preview.sh
```