picoCTF{ov3rfl0ws_ar3nt_that_bad_ef01832d}

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <signal.h>
#define FLAGSIZE_MAX 64
char flag[FLAGSIZE_MAX];
void sigsegv_handler(int sig) {
 printf("%s\n", flag);
 fflush(stdout);
 exit(1);
void vuln(char *input){
 char buf2[16];
 strcpy(buf2, input);
}
int main(int argc, char **argv){
 FILE *f = fopen("flag.txt","r");
 if (f == NULL) {
  printf("%s %s", "Please create 'flag.txt' in this directory with your",
           "own debugging flag.n");
  exit(0);
 fgets(flag, FLAGSIZE\_MAX, f);
 signal(SIGSEGV, sigsegv_handler); // Set up signal handler
 gid_t gid = getegid();
 setresgid(gid, gid, gid);
 printf("Input: ");
 fflush(stdout);
 char buf1[100];
```

```
gets(buf1);
vuln(buf1);
printf("The program will exit now\n");
return 0;
```

```
void vuln(char *input){
  char buf2[16];
  strcpy(buf2, input);
}
```

We can see from this function that it is copying the input to buf2 variable which has a size of 16 so we have to overflow it

