Instituto Tecnológico de Costa Rica

Sede Cartago

Escuela de Computación

Estructuras de Datos

Ejercicios sobre primer resumen

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2015108928

Fecha de entrega: 22 de Febrero

```
clude <stdlib.h>

 main()


ntf(" 1-1: Errores en hola mundo al dejar partes del codigo sin hacer\n\n" );
ntf("\t----------------------------------------------------------------------\n\n");
ntf(" 1-2: Experiment to find out what happens when prints 's argument string contains '/c',
re c is some character not listed above.\n" );
ntf("\t\t Se ignora el backslash y se imprimer la c junto con el resto de texto\n\n");
ntf("\t----------------------------------------------------------------------\n\n");

ntf(" 1-3: Agregar un titulo a la tabla\n" );
ntf("\t\t-----------Tabla de Conversion de Fahrenheit a Celsius-----------\n");
at fahr, celsius;
at lower, upper, step;
er = 0;
er = 300;
p = 20;

r = lower;
le (fahr <= upper) {
sius = 5 * (fahr-32) / 9;
ntf("%f\t%f\n", fahr, celsius);
r = fahr + step;

ntf("\t----------------------------------------------------------------------\n\n");
ntf(" 1-4: Write a program to print the corresponding Celsius to Fahrenheit table.\n\n");
sius=0;
le (celsius <= upper) {

hr = (9*(celsius)/5)+32;
intf("%3.0f %6.1f \n", celsius, fahr);
lsius = celsius + step;}

ntf("\t----------------------------------------------------------------------\n\n");
ntf(" 1-5: Modify the temperature conversion program to print the table in reverse order,that
 from 300 degrees to 0.\n\n");

r=upper;
le (fahr >= lower) {
sius = 5 * (fahr-32) / 9;
ntf("%f\t%f\n", fahr, celsius);
r = fahr - step;}

ntf("\t----------------------------------------------------------------------\n\n");
ntf(" 1-6/1-7: Verify that the expression getchar() != EOF is 0 or 1./Write a program to print
 value of EOF.\n\n");

ntf("EOF == %d\n", EOF);
```

```c
printf("EOF == %d\n", EOF);

printf("\t---------------------------------------------------------------------\n\n");
printf(" 1-8: Write a program to count blanks, tabs, and newlines.\n\n");

char c;
    unsigned int n=0, tab=0, space=0, nl=0,a=0;
    while((c = getchar()) != EOF){
                n++;
        if (c=='\t') tab++;
        if (c==' ') space++;
        if(c=='\n') nl++;

    }
     a=space+tab+nl;
     n=n-a;
    printf("Se leyeron %d caracteres,%d espacios, %d tabs y %d lineas ! \n",n,space,tab,nl);

printf("\t---------------------------------------------------------------------\n\n");
printf("1-10: Write a program to copy its input to its output, replacing each tab by backslash t ,
eachbackspace by backslash b , and each backslash by double backslash . This makes tabs and
backspaces visible in an unambiguous way\n\n");

while((c = getchar()) != EOF){

        if (c=='\t') printf("/t");
        if (c==' ') printf("/b");
        putchar(c);

}

printf("\t---------------------------------------------------------------------\n\n");
printf("1-11: How would you test the word count program? What kinds of input are most likely to
uncover bugs if there are any?\n\n");
printf("Utilizaria palabras pegadas y palabras separadas por varios espacion o varias tabulaciones
a la vez, puesto que eso es lo que toma en cuenta el programa para contar.\n");

printf("\t---------------------------------------------------------------------\n\n");
printf("1-12: Write a program that prints its input one word per line.\n\n");

while ((c=getchar())!= EOF){

    if (c!= ' ') c=putchar(c) ;
    if (c==' ') printf("\n");
}


}
```

```
Terminal File Edit View Search Terminal Help
luis@luis-G551JK:~$ cd Desktop
luis@luis-G551JK:~/Desktop$ ./tarea1
 1-1: Errores en hola mundo al dejar partes del codigo sin hacer

        ----------------------------------------------------------------


 1-2: Experiment to find out what happens when prints 's argument string contain
s '/c', where c is some character not listed above.
                Se ignora el backslash y se imprimer la c junto con el resto de
 texto

        ----------------------------------------------------------------


 1-3: Agregar un titulo a la tabla
               -----------Tabla de Conversion de Fahrenheit a Celsius----------
-
0.000000        -17.777779
20.000000       -6.666667
40.000000       4.444445
60.000000       15.555555
80.000000       26.666666
100.000000      37.777779
120.000000      48.888889
140.000000      60.000000
160.000000      71.111115
180.000000      82.222221
200.000000      93.333336
220.000000      104.444443
240.000000      115.555557
260.000000      126.666664
280.000000      137.777771
300.000000      148.888885
        ----------------------------------------------------------------
```

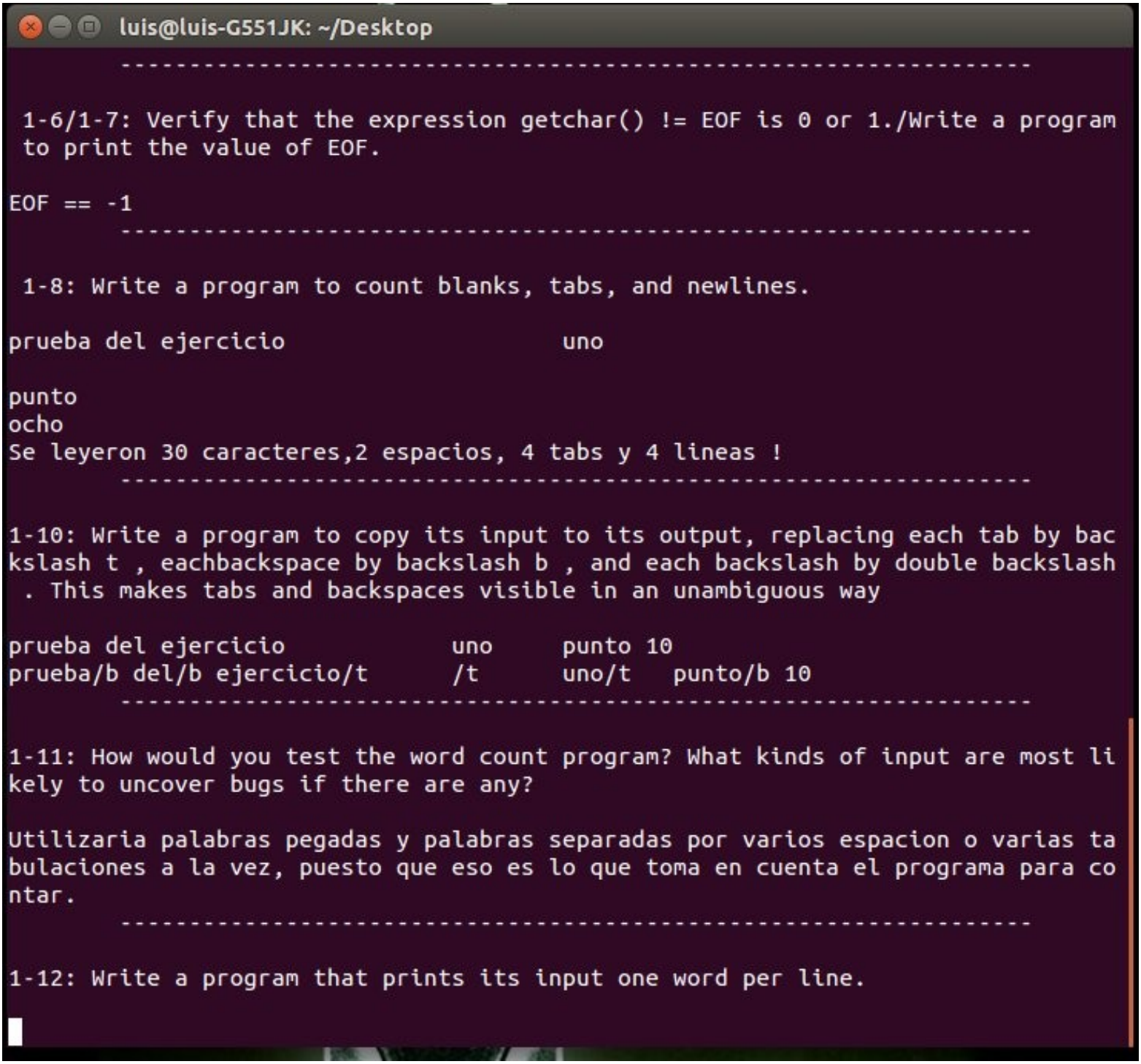
```
luis@luis-G551JK: ~/Desktop
        ------------------------------------------------------------

 1-4: Write a program to print the corresponding Celsius to Fahrenheit table.

  0   32.0
 20   68.0
 40  104.0
 60  140.0
 80  176.0
100  212.0
120  248.0
140  284.0
160  320.0
180  356.0
200  392.0
220  428.0
240  464.0
260  500.0
280  536.0
300  572.0
        ------------------------------------------------------------

 1-5: Modify the temperature conversion program to print the table in reverse or
der,that is, from 300 degrees to 0.

300.000000      148.888885
280.000000      137.777771
260.000000      126.666664
240.000000      115.555557
220.000000      104.444443
200.000000      93.333336
180.000000      82.222221
160.000000      71.111115
140.000000      60.000000
120.000000      48.888889
100.000000      37.777779
80.000000       26.666666
60.000000       15.555555
40.000000       4.444445
20.000000       -6.666667
0.000000        -17.777779
        ------------------------------------------------------------
```


luis@luis-G551JK: ~/Desktop

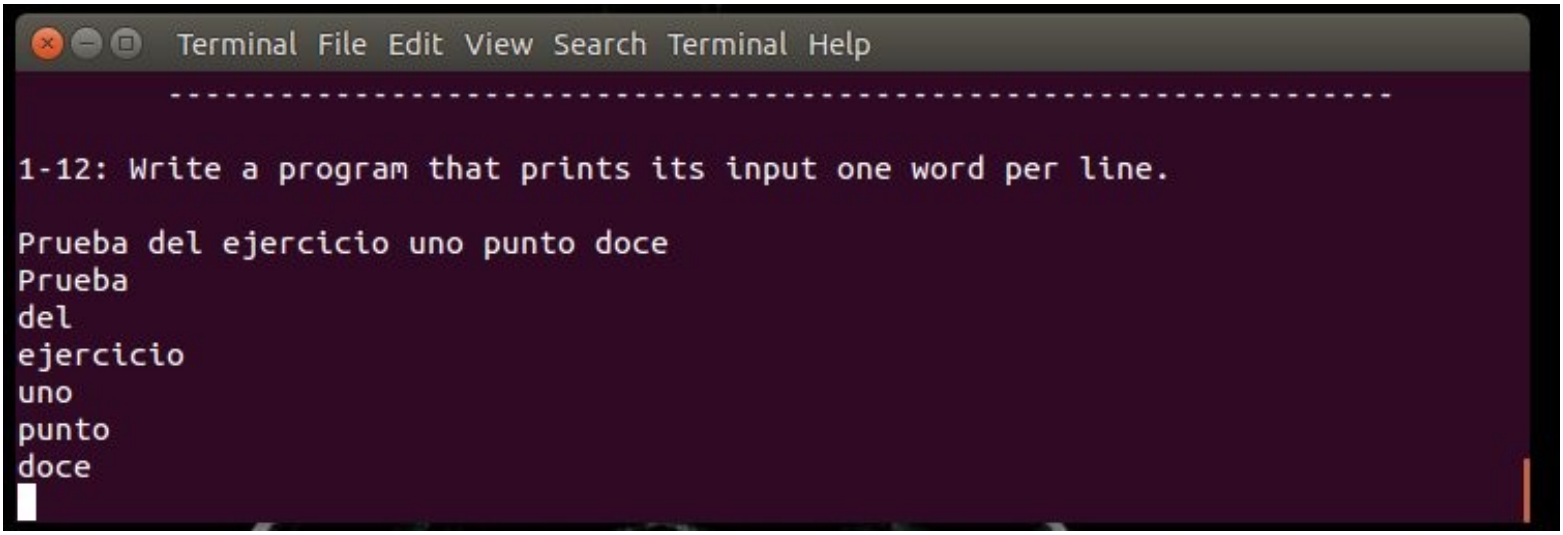
1-6/1-7: Verify that the expression getchar() != EOF is 0 or 1./Write a program to print the value of EOF.
EOF == -1

1-8: Write a program to count blanks, tabs, and newlines.
prueba del ejercicio uno
punto
ocho
Se leyeron 30 caracteres,2 espacios, 4 tabs y 4 lineas !

1-10: Write a program to copy its input to its output, replacing each tab by backslash t , eachbackspace by backslash b , and each backslash by double backslash . This makes tabs and backspaces visible in an unambiguous way
prueba del ejercicio uno punto 10
prueba/b del/b ejercicio/t /t uno/t punto/b 10

1-11: How would you test the word count program? What kinds of input are most likely to uncover bugs if there are any?
Utilizaria palabras pegadas y palabras separadas por varios espacion o varias tabulaciones a la vez, puesto que eso es lo que toma en cuenta el programa para contar.

1-12: Write a program that prints its input one word per line.


Terminal File Edit View Search Terminal Help
1-12: Write a program that prints its input one word per line.
Prueba del ejercicio uno punto doce
Prueba
del
ejercicio
uno
punto
doce