/\*Leny Fe Fernandez

ID: 120818174

Date: 2018-02-13

DCF255SII LAB 4: Bit Stuffing

\*/

#include "stdio.h"

#define ANSI\_COLOR\_RED "\x1b[31m"

#define ANSI\_COLOR\_YELLOW "\x1b[33m"

#define ANSI\_COLOR\_BLUE "\x1b[34m"

#define ANSI\_COLOR\_RESET "\x1b[0m"

int main(void) {

int array1[15] = {0,1,1,1,1,1,1,0,1,1,1,1,1,1,0};

int array2[30] = {0};

int array4[10] = {0,1,1,1,1,1,1,0};

int i = 0, j=0, k=0, count=1;

printf(ANSI\_COLOR\_YELLOW "Before Stuffing :");

for(i=0; i<15; i++)

printf("%d",array1[i]);

printf("-- 15 characters\n" ANSI\_COLOR\_RESET);

i=0;

while(i<15)

{

if(array1[i]==1)

{

array2[j]=array1[i];

for(k=i+1; array1[k]==1 && k<15 && count<5; k++)

{

j++;

array2[j]=array1[k];

count++;

if(count==5)

{

j++;

array2[j]=0;

}

i=k;

}

}

else

{

array2[j]=array1[i];

}

i++;

j++;

}

printf(ANSI\_COLOR\_YELLOW "After Stuffing : " ANSI\_COLOR\_RESET);

for(i=0; i<j; i++)

printf(ANSI\_COLOR\_RED "%d",array2[i]);

printf(ANSI\_COLOR\_YELLOW "-- 17 characters\n" ANSI\_COLOR\_RESET);

printf(ANSI\_COLOR\_YELLOW "After Framing : " ANSI\_COLOR\_RESET);

for(k=0; k<8; k++)

printf(ANSI\_COLOR\_BLUE "%d",array4[k]);

for(i=0; i<j; i++)

printf(ANSI\_COLOR\_YELLOW "%d",array2[i]);

for(k=0; k<8; k++)

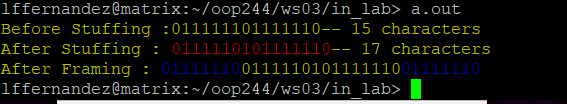
printf(ANSI\_COLOR\_BLUE "%d",array4[k]);

printf("\n");

return 0;

}

OUTPUT



I declare that the attached assignment is my own work in accordance with Seneca Academic Policy. No part of this assignment has been copied manually or electronically from any other source (including web sites) or distributed to other students.  
  
Student name:  
  
Leny Fe Fernandez  
  
Student ID:  
  
120818174