Segunda Chamada - Algorit. e Prog. (10 pontos)

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Exercício 01 (10 pontos) - Empresa do Malvado Doofenshmirtz

Código simples

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
 char texto[200];
 int a=0,b=0,c=0,d=0,e=0,f=0,g=0,h=0,i=0,j=0,k=0,l=0,m=0,
 n=0, o=0, p=0, q=0, r=0, s=0, t=0, u=0, v=0, x=0, w=0, y=0, z=0,
 A=0,B=0,C=0,D=0,E=0,F=0,G=0,H=0,I=0,J=0,K=0,L=0,M=0,
 N=0, O=0, P=0, Q=0, R=0, S=0, T=0, U=0, V=0, X=0, W=0, Y=0, Z=0;\\
 int cont = 0;
 printf("Escreva seu texto:\n");
 gets(texto);
 while(texto[cont] != '\0'){
    if(texto[cont]=='a')
    if(texto[cont]=='A')
    if(texto[cont]=='b')
    if(texto[cont]=='B')
    if(texto[cont]=='c')
      C++;
    if(texto[cont]=='C')
      C++;
    if(texto[cont]=='d')
      d++;
    if(texto[cont]=='D')
      D++;
    if(texto[cont]=='e')
      e++;
    if(texto[cont]=='E')
      E++;
    if(texto[cont]=='f')
      f++;
    if(texto[cont]=='F')
    if(texto[cont]=='g')
      g++;
    if(texto[cont]=='G')
      G++;
    if(texto[cont]=='h')
      h++;
    if(texto[cont]=='H')
      H++;
    if(texto[cont]=='i')
      i++;
    if(texto[cont]=='I')
    if(texto[cont]=='j')
      j++;
    if(texto[cont]=='J')
      J++;
```

```
if(texto[cont]=='k')
  if(texto[cont]=='K')
    K++;
  if(texto[cont]=='1')
    1++;
  if(texto[cont]=='L')
    L++;
  if(texto[cont]=='m')
    m++;
  if(texto[cont]=='M')
    M++;
  if(texto[cont]=='n')
    n++;
  if(texto[cont]=='N')
    N++;
  if(texto[cont]=='o')
  if(texto[cont]=='0')
  if(texto[cont]=='p')
    p++;
  if(texto[cont]=='P')
    P++;
  if(texto[cont]=='q')
    q++;
  if(texto[cont]=='Q')
    0++;
  if(texto[cont]=='r')
    r++;
  if(texto[cont]=='R')
  if(texto[cont]=='s')
    S++;
  if(texto[cont]=='S')
  if(texto[cont]=='t')
  if(texto[cont]=='T')
    T ++;
  if(texto[cont]=='u')
    u++;
  if(texto[cont]=='U')
    U++;
  if(texto[cont]=='v')
    v++;
  if(texto[cont]=='V')
  if(texto[cont]=='x')
  if(texto[cont]=='X')
    X++;
  if(texto[cont]=='w')
  if(texto[cont]=='W')
  if(texto[cont]=='y')
    y++;
  if(texto[cont]=='Y')
    Y++;
  if(texto[cont]=='z')
    Z++;
  if(texto[cont]=='Z')
    Z++;
  cont++;
}
printf("Ocorrencias de Letras Minusculas:\n");
```

```
printf("\"a\": %d \t", a);
printf("\"b\": %d \t", b);
printf("\"c\": %d \t", c);
printf("\"d\": %d \t", d);
printf("\"e\": %d \t", e);
printf("\"f\": %d \t", f);
printf("\"g\": %d \t", g);
printf("\"h\": %d \t", h);
printf("\"i\": \%d \ \t", \ i);
printf("\"j\": %d \t", j);
printf("\"k\": %d \t", k);
printf("\"1\": %d \t", 1);
printf("\"m\": %d \t", m);
printf("\"n\": %d \t", n);
printf("\"o\": %d \t", o);
printf("\"p\": %d \t", p);
printf("\"q\": %d \t", q);
printf("\"r\": %d \t", r);
printf("\"s\": %d \t", s);
printf("\"t\": %d \t", t);
printf("\"u\": %d \t", u);
printf("\"v\": %d \t", v);
printf("\"w\": %d \t", w);
printf("\"y\": %d \t", y);
printf("\"x\": %d \t", x);
printf("\"z\": %d \t", z);
printf("Ocorrencias de Letras Minusculas:\n");
printf("\"A\": %d \t", A);
printf("\"B\": %d \t", B);
printf("\"C\": %d \t", C);
printf("\"D\": %d \t", D);
printf("\"E\": %d \t", E);
printf("\"F\": %d \t", F);
printf("\"G\": %d \t", G);
printf("\"H\": %d \t", H);
printf("\"I\": %d \t", I);
printf("\"J\": %d \t", J);
printf("\"K\": %d \t", K);
printf("\"L\": %d \t", L);
printf("\"M\": %d \t", M);
printf("\"N\": %d \t", N);
printf("\"0\": %d \t", 0);
printf("\"P\": %d \t", P);
printf("\"Q\": %d \t", Q);
printf("\"R\": %d \t", R);
printf("\"S\": %d \t", S);
printf("\"T\": %d \t", T);
printf("\"U\": %d \t", U);
printf("\"V\": %d \t", V);
printf("\"W\": %d \t", W);
printf("\"Y\": %d \t", Y);
printf("\"X\": %d \t", X);
printf("\"Z\": %d \t", Z);
return 0;
```

Código com todas as fuincionalidades

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

int main()
{
    char texto[200], parada = '1';
```

```
int a=0,b=0,c=0,d=0,e=0,f=0,g=0,h=0,i=0,j=0,k=0,l=0,m=0,
n=0, o=0, p=0, q=0, r=0, s=0, t=0, u=0, v=0, x=0, w=0, y=0, z=0;
int cont = 0, tam = 0;
printf("Escreva seu texto, digite # para parar:\n");;
gets(texto);
do{
  parada = fgetc(stdin);
  if(parada == '~'){
    texto[tam] = '\0';
  else if (parada == 13){
    putchar('\n');
  }
  else{
    texto[tam] = parada;
    tam++;
}while(parada != '#');
while(texto[cont] != '\0'){
  if(texto[cont]=='a' || texto[cont]=='A')
  if(texto[cont]=='b' || texto[cont]=='B')
  if(texto[cont]=='c' || texto[cont]=='C')
  if(texto[cont]=='d' || texto[cont]=='D')
  if(texto[cont]=='e' || texto[cont]=='E')
  if(texto[cont]=='f' || texto[cont]=='F')
  if(texto[cont]=='g' || texto[cont]=='G')
  if(texto[cont]=='h' || texto[cont]=='H')
  if(texto[cont]=='i' || texto[cont]=='I')
  if(texto[cont]=='j' || texto[cont]=='J')
  if(texto[cont]=='k' || texto[cont]=='K')
  if(texto[cont]=='1' || texto[cont]=='L')
  if(texto[cont]=='m' || texto[cont]=='M')
  if(texto[cont]=='n' || texto[cont]=='N')
  if(texto[cont]=='0' || texto[cont]=='0')
  if(texto[cont]=='p' || texto[cont]=='P')
  if(texto[cont]=='q' || texto[cont]=='Q')
  if(texto[cont]=='r' || texto[cont]=='R')
  if(texto[cont]=='s' || texto[cont]=='S')
  if(texto[cont]=='t' || texto[cont]=='T')
  if(texto[cont]=='u' || texto[cont]=='U')
  if(texto[cont]=='v' || texto[cont]=='V')
  if(texto[cont]=='x' || texto[cont]=='X')
```

```
x++;
  if(texto[cont]=='w' || texto[cont]=='W')
  if(texto[cont]=='y' || texto[cont]=='Y')
   y++;
  if(texto[cont]=='z' || texto[cont]=='Z')
    Z++;
  cont++;
}
printf("Ocorrencias de Letras:\n");
printf("\"a\": %d \t", a);
printf("\"b\": %d \t", b);
printf("\"c\": %d \t", c);
printf("\"d\": %d \t", d);
printf("\"e\": %d \t", e);
printf("\"f\": %d \t", f);
printf("\"g\": %d \t", g);
printf("\"h\": %d \t", h);
printf("\"i\": %d \t", i);
printf("\"j\": %d \t", j);
printf("\"k\": %d \t", k);
printf("\"1\": %d \t", 1);
printf("\"m\": %d \t", m);
printf("\"n\": %d \t", n);
printf("\"o\": %d \t", o);
printf("\"p\": %d \t", p);
printf("\"q\": %d \t", q);
printf("\"r\": %d \t", r);
printf("\"s\": %d \t", s);
printf("\"t\": %d \t", t);
printf("\"u\": %d \t", u);
printf("\"v\": %d \t", v);
printf("\"w\": %d \t", w);
printf("\"y\": %d \t", y);
printf("\"x\": %d \t", x);
printf("\"z\": %d \t", z);
return 0;
```