

Apoyo :

Los compiladores modernos no permiten el uso de la función `gets`, en su lugar usamos `fgets`. Para leer de consola con espacios usa el siguiente comando:

```
char arg[50];  
  
fgets(arg,50,stdin);
```

`arg` es el arreglo/ 50 es el tamaño del arreglo/ `stdin` especifica que vamos a leer de la consola

`fgets` incluye el enter cuando lee, así que con la siguiente instrucción sobrescribimos la penúltima localidad (que es el enter `\n`), con un carácter de nulo `\0`.

```
arg[strlen(arg)-1]='\0';
```

El código completo para leer de consola usando `fgets` es:

```
char arg[50];  
  
fgets(arg,50,stdin);  
  
arg[strlen(arg)-1]='\0';
```

Recuerda que la estructura compañera de las cadenas de caracteres es el ciclo `while`, y que la condición de terminación es el carácter especial `\0` (fin de cadena).

Problemas :

Descarga los archivos que estan en <https://goo.gl/9ceYS4> y colocalos en la misma carpeta donde esté tu programa. No los modifiques. Cuando subas el .zip para hacer pruebas incluye los archivos de texto.

Crea el siguiente menu que se desplegará en el programa. El menu debe de regresar al inicio en cada operación y solo salir con la opción 4.

```
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
```

Desarrolla la funcion `primer_lugar`, la cual recibe el nombre de un archivo como paramentro e imprime en pantalla el nombre del jugador con porcentaje más alto.

Casos de prueba

- Input: En el nombre del archivo introducido por el usuario.
- Output: Es el nombre del jugador en el archivo con el porcentaje más alto.

```
1a.
    Input:
    1
    LOL.txt
    4
    Output:
    menu
    1) primer_lugar
    2) ultimo_lugar
    3) mensaje_secreto
    4) salir
    Mirko_XIII
    menu
    1) primer_lugar
    2) ultimo_lugar
    3) mensaje_secreto
    4) salir
```

```
1b.
    Input:
    1
    SC2.txt
    4
    Output:
    menu
    1) primer_lugar
    2) ultimo_lugar
    3) mensaje_secreto
    4) salir
    Life
    menu
    1) primer_lugar
    2) ultimo_lugar
    3) mensaje_secreto
    4) salir
```

Desarrolla la funcion ultimo_lugar, la cual recibe el nombre de un archivo como paramentro e imprime en pantalla el nombre del jugador con porcentaje más bajo.

Casos de prueba

- Input: En el nombre del archivo introducido por el usuario.
- Output: Es el nombre del jugador en el archivo con el porcentaje más bajo.

2a.

```
Input:
2
LOL.txt
4
Output:
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
Honzicek
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
```

2b.

```
Input:
2
SC2.txt
4
Output:
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
INnoVation
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
```

Desarrolla la función `mensaje_secreto`, la cual recibe el nombre de un archivo como parámetro. La función abre el archivo y descifra usando ROT 13 inverso <https://en.wikipedia.org/wiki/ROT13> e imprime todo el mensaje en consola.

- Input: En el nombre del archivo introducido por el usuario.
- Output: Es el archivo descifrado.

3a.

```
Input:
3
secreto.txt
4
Output:
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
abc
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
```

1. Expected Output Test ⑥ Prueba 1 A

Input

```
1
LOL.txt
4
```

Expected Output

```
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
Mirko_XIII
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
```

2. Expected Output Test ⑥ Prueba 2 A

Input

```
2
LOL.txt
4
```

Expected Output

```
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
Honzicek
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
```

3. Expected Output Test ⓘ Prueba 3 D

Input

```
3
secreto1.txt
4
```

Expected Output

```
menu
1) primer_lugar
2) ultimo_lugar
3) mensaje_secreto
4) salir
If I could offer you only one tip for the future, sunscreen would be it. The long-term benefits of sunscreen have been proved by scientists whereas the rest of my advice has no basis more reliable than my own meandering experience. I will dispense this advice now.

Enjoy the power and beauty of your youth. Oh, never mind. You will not understand the power and beauty of your youth until they've faded. But trust me, in 20 years, you'll look back at photos of yourself and recall in a way you can't grasp now how much possibility lay before you and how fabulous you really looked. You are not as fat as you imagine.

Don't worry about the future. Or worry, but know that worrying is as effective as trying to solve an algebra equation by chewing bubble gum. The real troubles in your life are apt to be things that never crossed your worried mind, the kind that blind side you at 4 PM on some idle Tuesday.

Do one thing every day that scares you.

Sing.

Don't be reckless with other people's hearts. Don't put up with people who are reckless with yours.

Floss.

Don't waste your time on jealousy. Sometimes you're ahead, sometimes you're behind. The race is long and, in the end, it's only with yourself.

Remember compliments you receive. Forget the insults. If you succeed in doing this, tell me how.

Keep your old love letters. Throw away your old bank statements.

Stretch.
```

Stretch.

Don't feel guilty if you don't know what you want to do with your life. The most interesting people I know didn't know at 22 what they wanted to do with their lives. Some of the most interesting 40-year-olds I know still don't.

Get plenty of calcium.

Be kind to your knees. You'll miss them when they're gone.

Maybe you'll marry, maybe you won't. Maybe you'll have children, maybe you won't. Maybe you'll divorce at 40, maybe you'll dance the funky chicken on your 75th wedding anniversary. Whatever you do, don't congratulate yourself too much, or berate yourself either. Your choices are half chance. So are everybody else's.

Enjoy your body. Use it every way you can. Don't be afraid of it or of what other people think of it. It's the greatest instrument you'll ever own.

Dance, even if you have nowhere to do it but your living room.

Read the directions, even if you don't follow them.

Do not read beauty magazines. They will only make you feel ugly.

Get to know your parents. You never know when they'll be gone for good.

Be nice to your siblings. They're your best link to your past and the people most likely to stick with you in the future.

Understand that friends come and go, but with a precious few you should hold on. Work hard to bridge the gaps in geography and lifestyle, because the older you get, the more you need the people who knew you when you were young.

Live in New York City once, but leave before it makes you hard.

Live in Northern California once, but leave before it makes you soft.

Travel.

Live in Northern California once, but leave before it makes you soft.

Travel.

Accept certain inalienable truths: Prices will rise. Politicians will philander. You, too, will get old. And when you do, you'll fantasize that when you were young, prices were reasonable, politicians were noble, and children respected their elders.

Respect your elders.

Don't expect anyone else to support you. Maybe you have a trust fund. Maybe you'll have a wealthy spouse. But you never know when either one might run out.

Don't mess too much with your hair or by the time you're 40 it will look 85.

Be careful whose advice you buy, but be patient with those who supply it. Advice is a form of nostalgia. Dispensing it is a way of fishing the past from the disposal, wiping it off, painting over the ugly parts and recycling it for more than it's worth.

menu

- 1) primer_lugar
- 2) ultimo_lugar
- 3) mensaje_secreto
- 4) salir