



# REPORTE

## Proyecto de debugging

### Descripción breve

En este reporte se pretende enseñar cada uno de los arreglos que sufrió el programa

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# Reportes

## Fix Error 1

ID	01	Status	Solved	Severity	Critical
Description	Program Crashed with segmentation fault				
Steps to reproduce	Run the program				
Expected result	Be able to Run the program				
Actual result	A segmentation fail				
Solution	In "main.c" put a double "=" in line 15				

## Fix Error 2

ID	02	Status	Solved	Severity	Critical
Description	Problem with the choose of options				
Steps to reproduce	Run the program and chose an option				
Expected result	Be able to Run the program and enter in any option				
Actual result	Any option available				
Solution	Modify the return in the line 33				

## Fix Error 3

ID	03	Status	Solved	Severity	Major
Description	The program wasn't doing the correct order in the assignation.				
Steps to reproduce	Run the program and chose an option				
Expected result	The list show in correct order				
Actual result	The order of the list was incorrect				
Solution	In the file list.c, in line 51, you need to put another "="				

#### Fix Error 4

ID	04	Status	Solved	Severity	Major
Description					
Steps to reproduce	Run the program and chose an option				
Expected result	The list show in correct order				
Actual result	The order of the list was incorrect				
Solution	You need a "0" to indicate the end of the string and change in the ret				

#### Fix Error 5.1, 5.2, 5.3

ID	05	Status	Solved	Severity	Critical
Description	Core Dumped Error				
Steps to reproduce	Run the program				
Expected result	Program calculate the correct distance				
Actual result	Segmentation Fault				
Solution	Change the value in minAlt to "Infinity", change in "checkAltitudeInDirection" the variables "I" , "j" to the variables "newI" and "newJ" and chang again the variables in the "InDirection" to not get negative positions				

#### Fix Error 6

ID	06	Status	Solved	Severity	high
Description	The coordantes of the Bcn are incorrect				
Steps to reproduce	Run the program and the coordinates need to be correct				
Expected result	The correct Coordinates				
Actual result	Incorrect Coordinates				

Solution	Invert the coordinates in the file Destination.c
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### Fix Error 7

ID	07	Status	Solved	Severity	Critical
Description	The function of the QSort				
Steps to reproduce	Run the program and the function is off				
Expected result	That function goes right				
Actual result	The function goes wrong				
Solution	Change the return of the Qsort Function				

### Fix Error 8

ID	07	Status	Solved	Severity	Major
Description	The message error is not showing up				
Steps to reproduce	Run the program and go a bad option				
Expected result	Show the message error				
Actual result	Doesn't show the message error				
Solution	Invert the coordinates in the file Destination.c				

### Fix Error 9

ID	09	Status	Solved	Severity	Menior
Description	The average hotel prices are not showing up				
Steps to reproduce	Run the program and in the prices see the average hotel price				
Expected result	That show the average prices				
Actual result	Doesn't show the average price				
Solution	In the destination.c file you need to change the variable "l" that is in the cycle from 1 to 0				

### Fix Error 10

ID	10	Status	Solved	Severity	Major
Description	The map show a random guy				
Steps to reproduce	Run the program and in the map show a random guy				
Expected result	Don't show random guy				
Actual result	Show random guy				
Solution	Put a line code <code>map[i][j] = '\0';</code> outside the cycle but inside the function				

### Fix Error 11,12

ID	11, 12	Status	Solved	Severity	Critical
Description	The problem with release of the memory				
Steps to reproduce	Run the program and the memory don't work well				
Expected result	The memory works well				
Actual result	The memory have problems				
Solution	Need to add all the the attributes of Destination and in the list.c we need to add the variable i and put inside the while a cycle for				

### Fix Error 13

ID	07	Status	Solved	Severity	Major
Description	The Message error of the SortMenu				
Steps to reproduce	Run the program and put a wrong answer in the option				
Expected result	See a Message error				
Actual result	Don't see a Message error				
Solution	Put a cycle that marks the parameters to pop out the error				

## Fix Error 14

ID	14	Status	Solved	Severity	Major
Description	The path Isn't absolutly				
Steps to reproduce	Run the program but the Path is not absolute				
Expected result	That the path be absolut				
Actual result	The path is not absolut				
Solution	Change the path to absolut in the main.c				

## Fix Error 15

ID	15	Status	Solved	Severity	Critical
Description	Have a problem with the read of new users				
Steps to reproduce	Run the program and don't have a problem with the user				
Expected result	Don't have problems with the users				
Actual result	Have a scan problem with the user				
Solution	Fix the increment of the string "ret" and add a "0" to indicate the final of the String				

## Conclusion

When I finished this report, I realize that I have some conclusions that I need to expose in this Essay

- First of all I want to highlight that I didn't realize how none was my knowledge about this topic, because when I start this subject I was not sure what to expect, but in each class I learn something new and that's amazing, due I'm not a Enginery Student when I just start this work I have a lot of problems to identify the problems of this bugs but with practice and see the program very meticulous I start to see the problems more easily
- In this area in particular I love the satisfaction of finding an error, it was so chill, but with this I realize a lot of things that you need to put attention, starting of the develop of the program, you need to have a good bug control to see how many errors have your program in the developing and with that don't have a lot of bugs when your program its over
- And for least in a personal opinion I enjoy a lot to doing this work because when I started I don't feel prepare to do it, but when I start to investigate more about the topic I start to understand how do the work and I start to push me in more aspects of programing and I'm very satisfied with the result