Projecte debugging

PROJECTES DE PROGRAMACIÓ
ALEX ALMANSA

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Reports

Bug report 1

ID	#1	Status	Solved	Severity	Critical			
Description	Program cra	shed with seg	mentation fa	ult				
Steps to reproduce	Just run the	Just run the program						
Expected result	Be able to ru	Be able to run the program						
Actual result	Segmentation fault							
Solution	In main.c put a double = in line 15 if (f = NULL) {							

Bug report 2

ID	#2	Status	Solved	Severity	Critical			
Description	Options wer	e all out of ra	ange					
Steps to reproduce	Run the prog	Run the program and enter any option						
Expected result	Be able to er	Be able to enter the options						
Actual result	All options out of range							
Solution	In menu.c is	In menu.c iscorrect						

ID	#3	Status	Solved	Severity	Major			
Description	•	Program wasn't ordering correctly because an assignation was done in the insert function of the list.c module.						
Steps to reproduce	Just run the	Just run the program.						
Expected result	A list ordered	A list ordered correctly						
Actual result	The list not being ordered							
Solution	In the list.c n	nodule, in the	insert function	on, in line 51,	change the = for ==			

ID	#4	Status	Solved	Severity	Critical			
Description		The program crashes with core dumped when tries to mesure distance from the destination to Barcelona.						
Steps to reproduce	Run the prog	Run the program						
Expected result	Program calculating the distance between two points correctly.							
Actual result	An infinite bucle when measuring distance because the values of the position aren't changing							
Solution								

Bug report 5

ID	#5	Status	Solved	Severity	Critical			
Description	The program	crashes with	core dumped	İ				
Steps to reproduce	Run the prog	Run the program						
Expected result	Program cald	Program calculating the distance between two points correctly.						
Actual result	Segmentatio	Segmentation fault (Core dumped)						
Solution	Change the value of minAlt in the travelThroughAltitude function from 0 to INFINITE as if it's 0 the minAlt won't change because 0 is the minimum but if its INFINITE it will change because any height will be lower.							

ID	#6	Status	Solved	Severity	High		
Description	The top3 hot	tels isn't well	displayed.				
Steps to reproduce	Run the program, choose the option plan a trip and show best hotels						
Expected result	The top 3 hotels ordered by the price, being the first one the most expensive one.						
Actual result	The top 3 but not ordered.						
Solution	In the module functions.c, in the function comparePrices, there is a + that should be changed for a -, in the return line.						

ID	#7	Status	Solved	Severity	Medium	
Description	In the top 3	of hotels, the	one in the po	sition 0 of the	array isn't displayed	
Steps to reproduce	Run the program, choose the option plan a trip and show best hotels					
Expected result	The top 3 hotels ordered by the price, being the first one the most expensive one.					
Actual result	The top 3 but the first one in the array not being considered.					
Solution		the module destination.c, the function getaveragehotelprice is initialized at 1 d should be at 0.				

Bug report 8

ID	#8	Status	Solved	Severity	Critical			
Description			1		ltitude route.			
Steps to reproduce	Run the prog	Run the program, choose the option plan a trip and show best altitude route.						
Expected result	The best alti	The best altitude route						
Actual result	Program sto	Program stops, and it doesn't do anything until you force it to exit.						
Solution	In the module destination.c the function mapAltitude has the minAlt initialized at 0 when it should be initialized at INFINITY, this is the same bug than the number 5.							

ID	#9	Status	Solved	Severity	Critical			
Description	The program	crashes whe	n it should sh	ow the best a	ltitude route.			
Steps to reproduce	Run the prog	Run the program, choose the option plan a trip and show best altitude route.						
Expected result	The best alti	The best altitude route						
Actual result	Program sto	Program stops, and it doesn't do anything until you force it to exit.						
Solution	In the module destination.c the function mapAltitude change the parameters passed to the recursive call, now they are I and j, so they are not changing and there should be newI and newJ.							

ID	#10	Status	Solved	Severity	Low			
Description	The menu is:	n't displayed o	correctly.					
Steps to reproduce	Run the prog	Run the program and see the menu.						
Expected result	The menu displayed with all the options in the same way.							
Actual result	Too much space between the two last options							
Solution	In the menu, delete a \n that was not necessary							

Bug report 11

ID	#11	Status	Solved	Severity	Low		
Description	It wasn't mo	ving in the rig	ht direction				
Steps to reproduce	Run the prog	Run the program and see the menu.					
Expected result	The increme	The increment of j to go north and decrement to go south					
Actual result	Too much space between the two last options						
Solution	In the modul function.	In the module destination.c, change the ++ and the – in the advanceInDirection function.					

ID	#12	Status	Solved	Severity	Medium			
Description	When a directory was charged, in the option 3, there was a core dumped due to the readwholefile function							
Steps to reproduce	Run the program, choose the option 3 and try to charge a directory.							
Expected result	An error							
Actual result	Core dumped							
Solution	In the module functions.c, in the fopen change the r for r+							

ID	#13	Status	Unsolved	Severity	Medium			
Description	When you try to load a file, there is an error saying couldn't load the file							
Steps to reproduce	Run the program, choose the option 3 and try to load a file							
Expected result	The file loading							
Actual result	Erros, couldn't load the file							
Solution								

Conclusions

Un cop finalitzat aquest treball de debugging, he extret unes conclusions que exposaré a continuació.

En primer lloc, m'he adonat que no tenia gens de coneixements sobre aquest mon I que això ha fet que a l'inici d'aquest treball em trobés una mica perdut i no sàpigues gaire per on començar al ser la primera vegada que treballava en aquest àmbit. Això va fer que al principi em passés molt de temps per trobar els primers bugs però poc a poc anés agafant pràctica i anant una mica més ràpid.

En segon lloc, dir que aquesta tasca es una tasca que requereix de molt temps i que en alguns casos pot resultar una mica desesperant, sobretot quan et quedes encallat a un bug i no aconsegueixes resoldre'l de cap manera. Per altra banda això també fa que al trobar algun bug amb el que has passat hores buscant, resulti realment gratificant.

Per últim, aquest àmbit és un àmbit molt important dins del món de la programació ja que en qualsevol programa que fem hi haurà bugs i el debugging és una tasca que fins ara no coneixia, i tots els programes els anava arreglant com podia, i en alguns casos resultava realment difícil i crec que aquesta eina pot ser realment útil per a resoldre aquests problemes i encara més si el projecte en el que treballem és més gran.

Enllaç github

https://github.com/alexalmansa/Trip-Organizer.git