Ex2: Debugging

Projectes de programació

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# Reports

**Bug report template 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | 1 | Status | Solved | Severity | Alta |
| Description | No avanzaba correctamente en la dirección en la que se supone que debería avanzar. | | | | |
| Steps to reproduce |  | | | | |
| Expected result | Incremento en J para la dirección NORTH (0), decremento en SOUTH (2), incremento en EAST(1), decremento en WEST(3). | | | | |
| Actual result | Decremento en J para la dirección NORTH (0), incremento en SOUTH (2), incremento en EAST(1), decremento en WEST(3) (el decremento se ejecuta en la instrucción default) . | | | | |
| Solution | Cambiar la función advanceInDirection decremento en j de NORTH a incremento, modificar el case WEST añadiendo el decremento en WEST y Cambiar el case default a vacio. | | | | |

**Bug report template 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | 2 | Status | Solved | Severity | Crítica |
| Description | El programa crashea con segmentation fault a la hora de ver si el fichero se encuentra vacio o no. | | | | |
| Steps to reproduce | Ejecutar el programa | | | | |
| Expected result | Que compruebe que el fichero se ha cargado correctamente | | | | |
| Actual result | Segmentation Fault(Core dumped) | | | | |
| Solution | Cambiar una asignación que se da dentro de un if en la línea 15 del fichero main.c a un == | | | | |

**Bug report template 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID |  | Status |  | Severity |  |
| Description |  | | | | |
| Steps to reproduce |  | | | | |
| Expected result |  | | | | |
| Actual result |  | | | | |
| Solution |  | | | | |

**Bug report example 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | #23 | Status | Solved | Severity | Critical |
| Description | Program crashed with Segmentation Fault (Core Dumped) after printing all the students with the grades. | | | | |
| Steps to reproduce | Just run the program. | | | | |
| Expected result | A list with the name of all students and their grades. | | | | |
| Actual result | The list, plus a core dumped. | | | | |
| Solution | In line 55 from students.c, the loop which accessed the array of students accessed position *MAX\_STUDENTS* which did not exist. We replaced the condition from i<=MAX\_STUDENTS to i<MAX\_STUDENTS to solve the problem. | | | | |

**Bug report example 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | #24 | Status | Unresolved | Severity | Major |
| Description | The program is not sorting the students by grade (from 10 to 0), only when the students’ grades are already inversely sorted (from 0 to 10). | | | | |
| Steps to reproduce | 1. Insert a set of 3 students 2. Insert the grades for each student being 0, 5 and 10 3. Run option 3 on the menu (sort by grade) 4. Get the list of students from 0 to 10 (inverse order) | | | | |
| Expected result | A list of students sorted by grade from 10 to 0 | | | | |
| Actual result | A list of students sorted by grade from 00 to 10 | | | | |
| Solution | --- | | | | |

# Conclusions