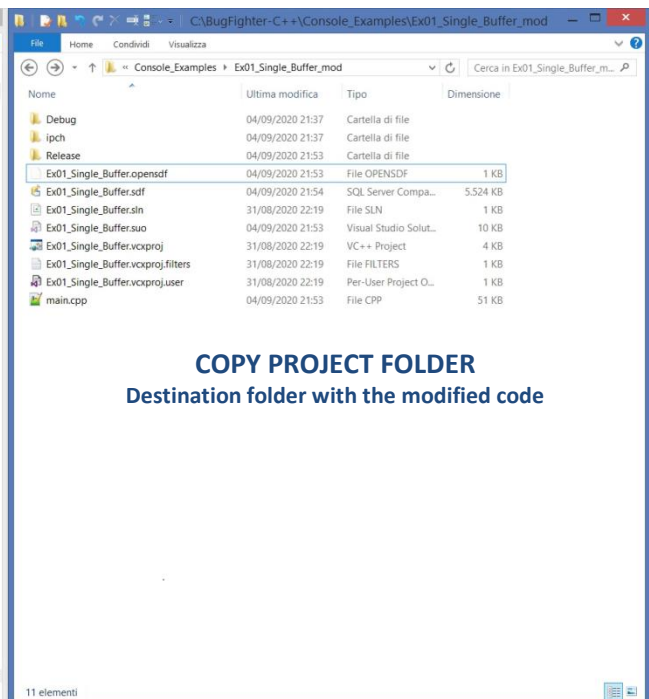
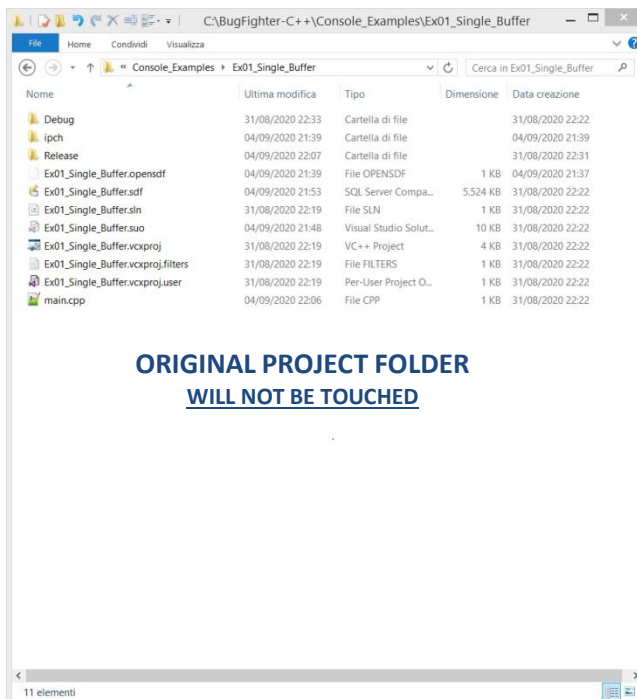
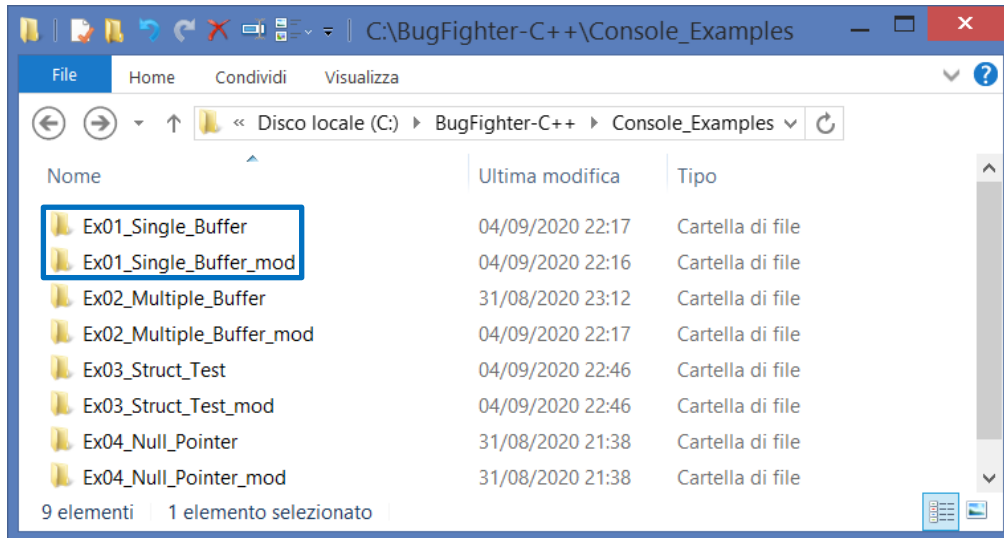


Bugfighter C/C++

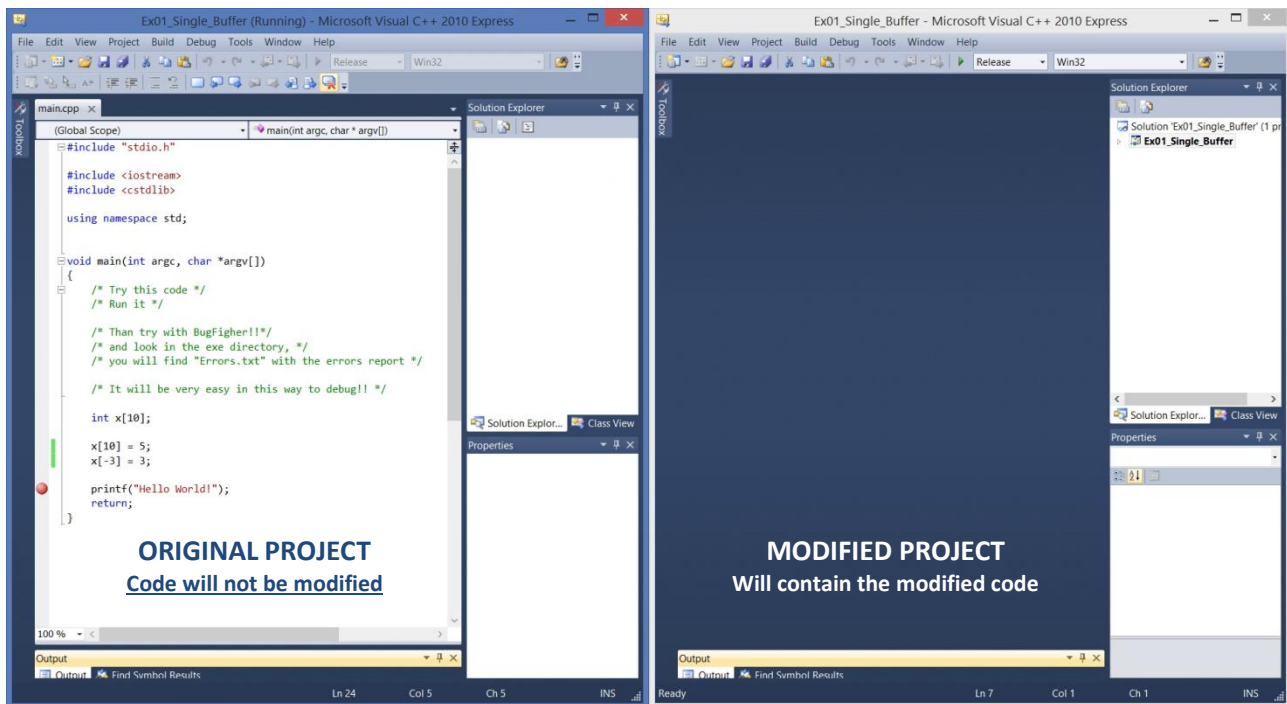
How to detect a buffer overflow in an array

1. Make a copy of the project directory:

Ex: `Ex01_Single_Buffer` → `Ex01_Single_Buffer_mod`

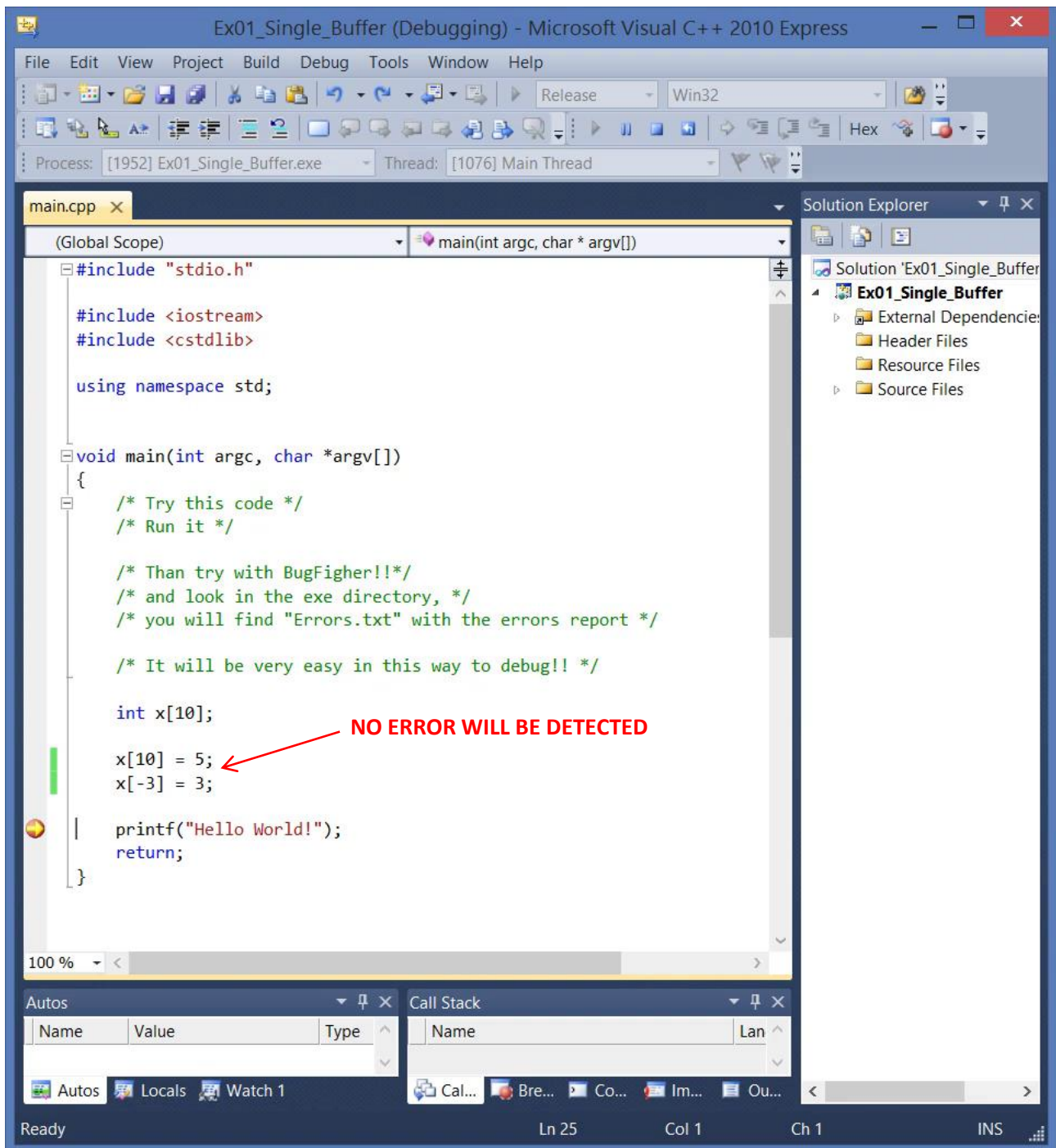


2. Open both projects with your compiler

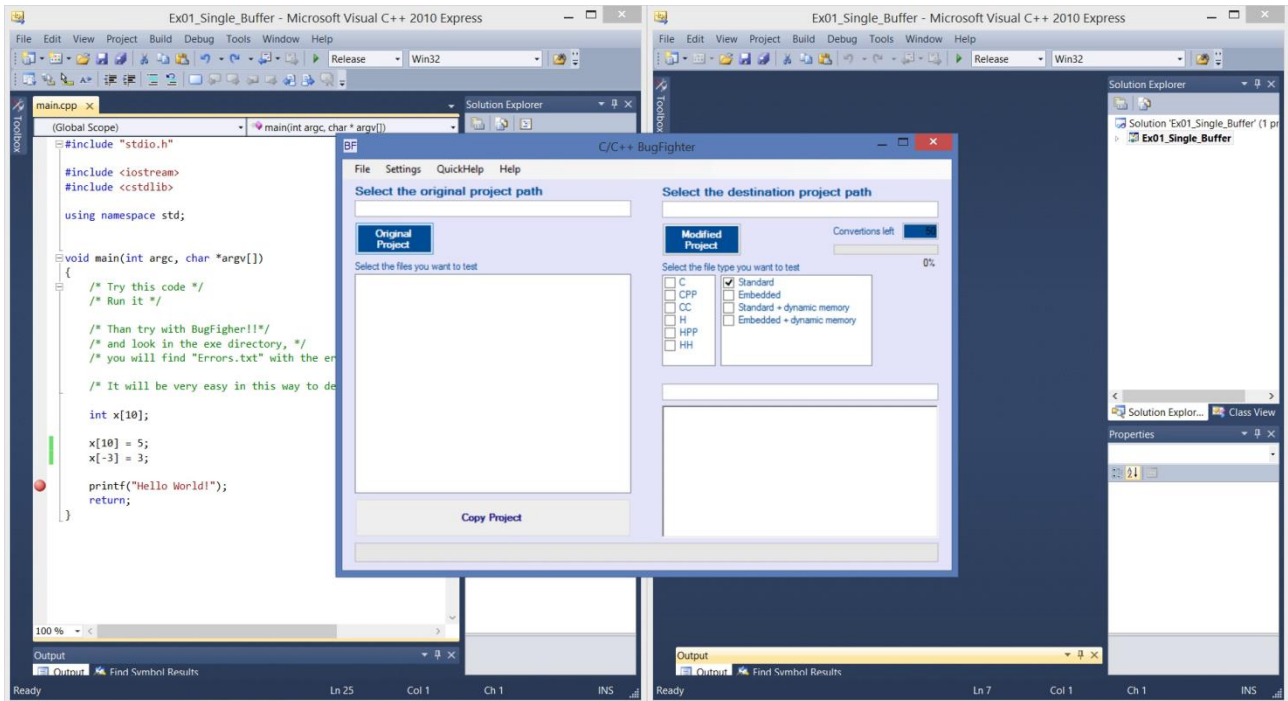


3. Run the original code:

No exception will be detected

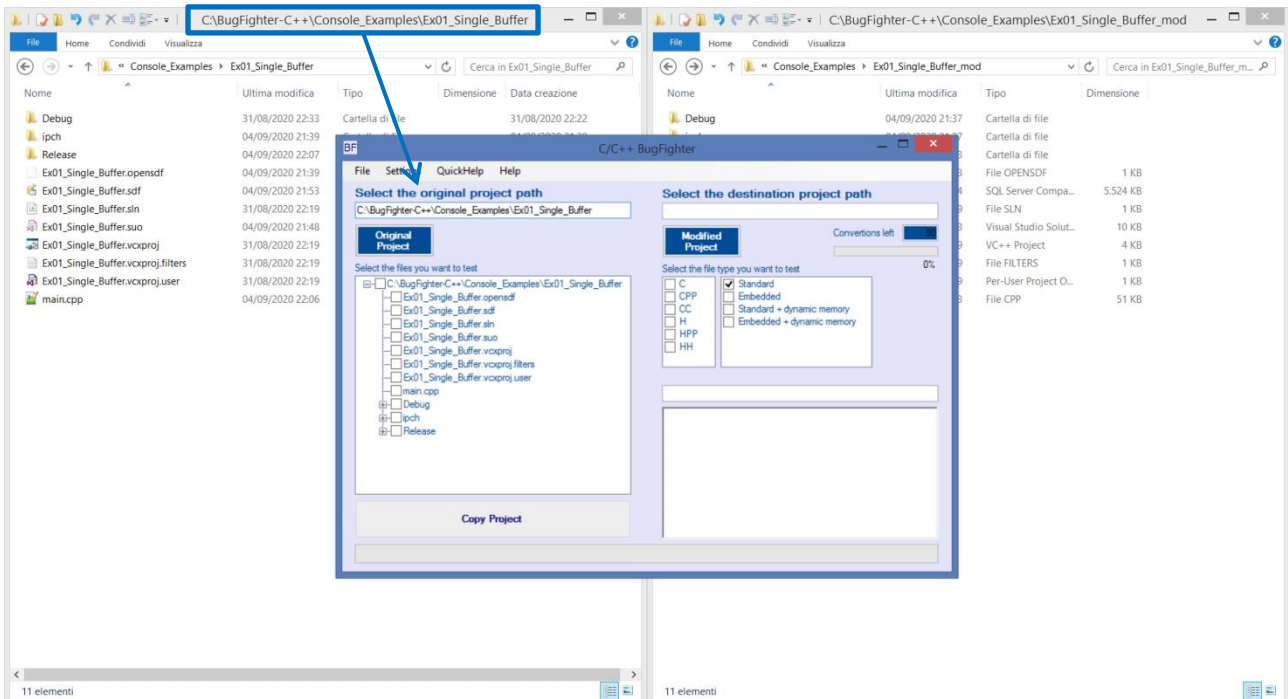


4. Open Bugfighter C/C++



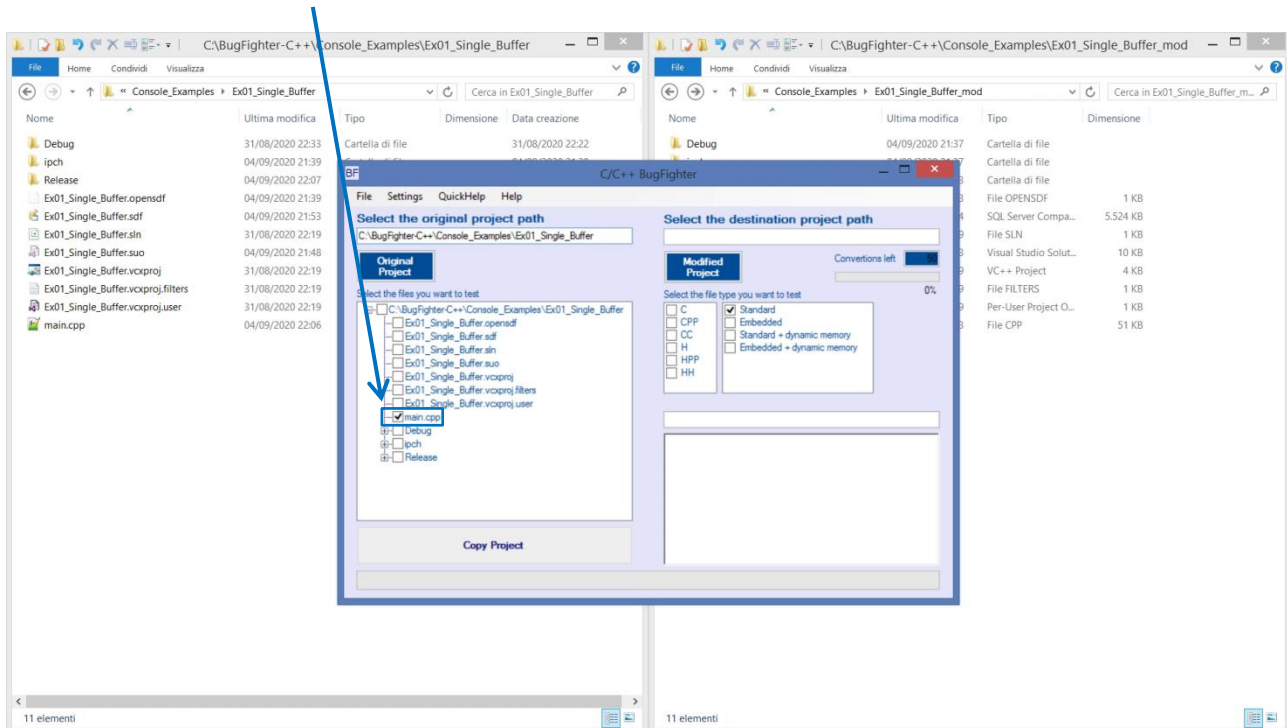
5. Select the directory with the original code:

Ex: "C:\BugFighter-C++\Console_Examples\Ex01_Single_Buffer"



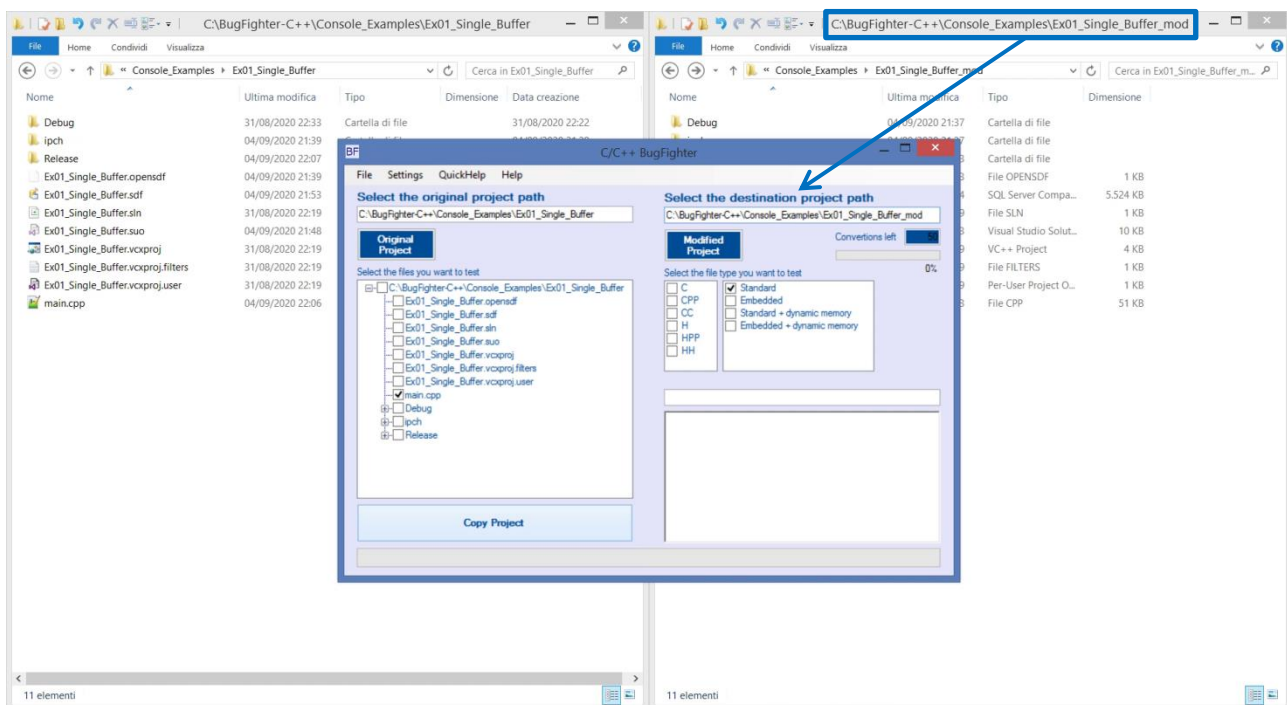
6. Select the C/C++ code file that must be tested:

Ex: "main.cpp"



7. Select the destination directory with the modified code:

Ex: "C:\BugFighter-C++\Console_Examples\Ex01_Single_Buffer_mod"

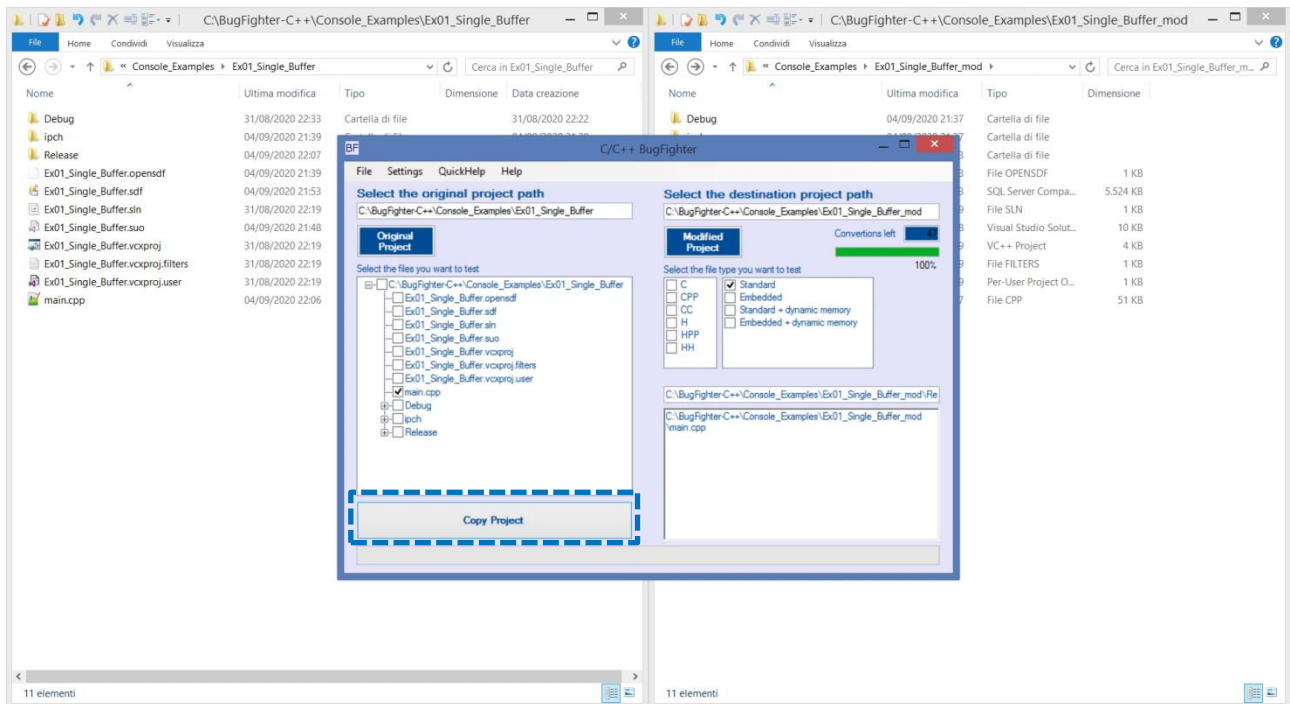


8. Select “Copy Project”:

All files will be copied from original directory to the destination directory:

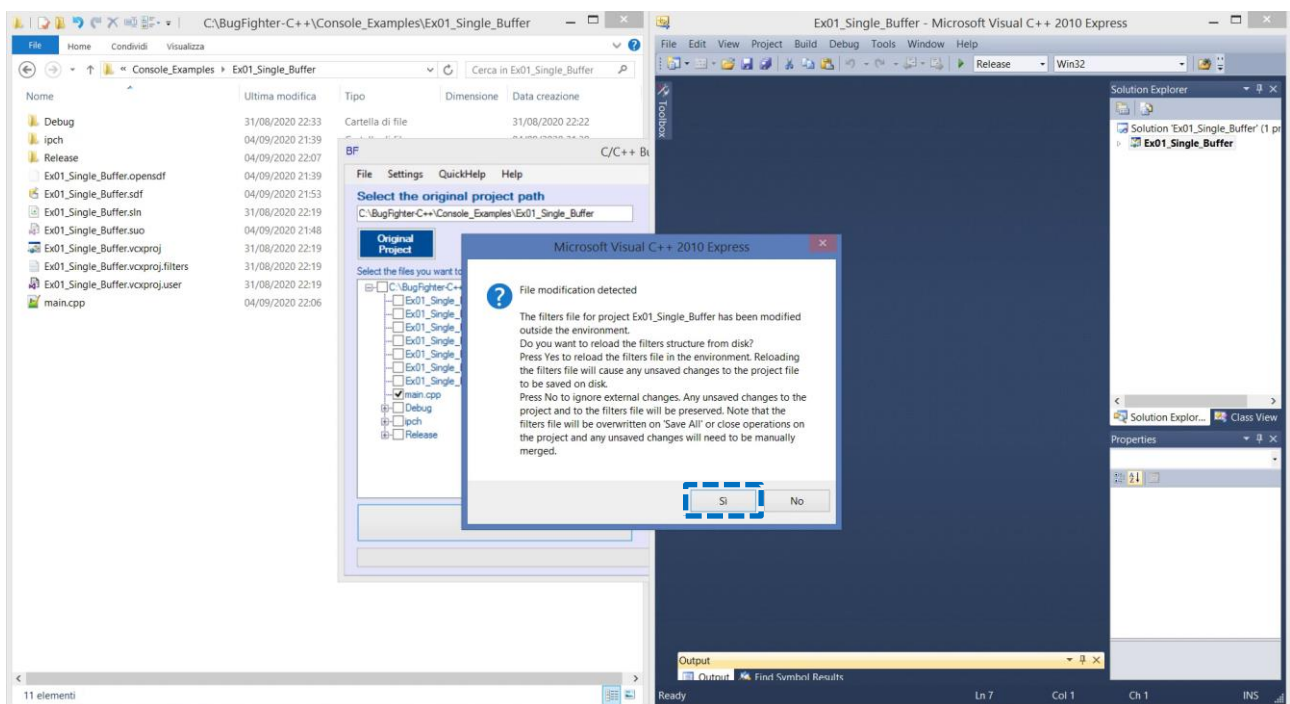
Ex01_Single_Buffer → Ex01_Single_Buffer_mod

The file “main.cpp” will contain the test code.

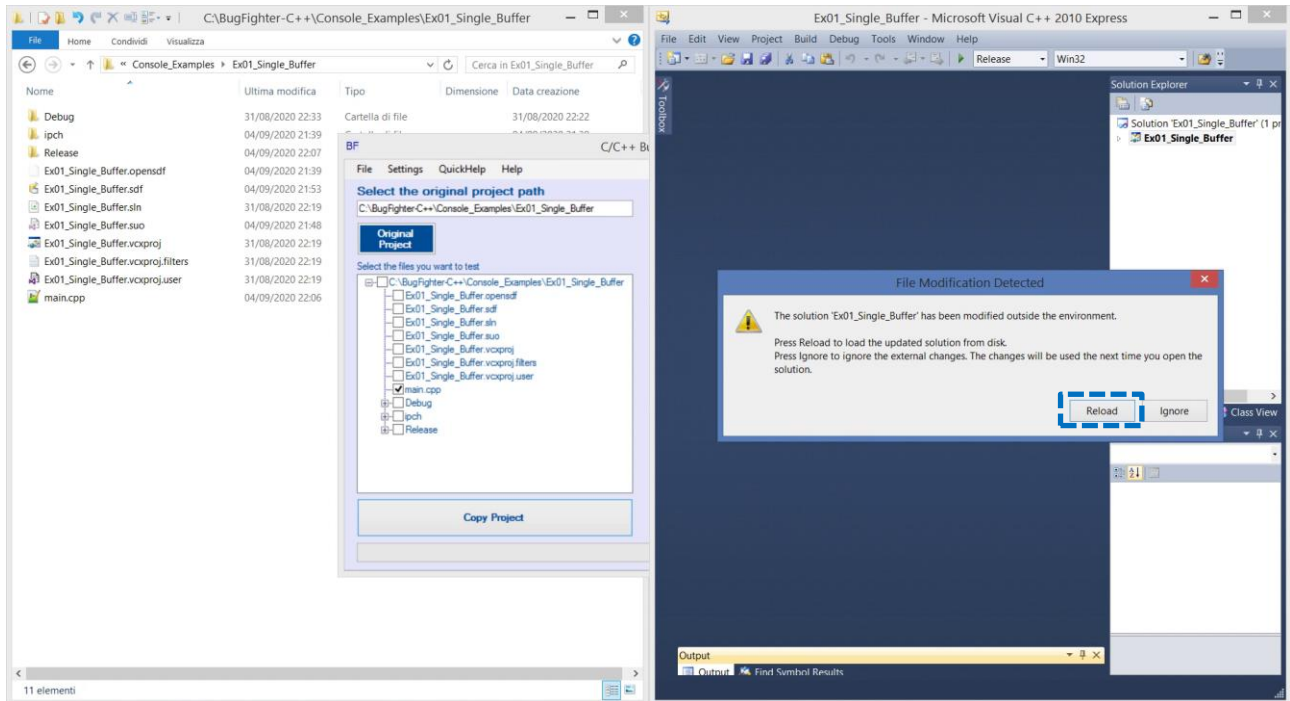


9. The destination project has been updated:

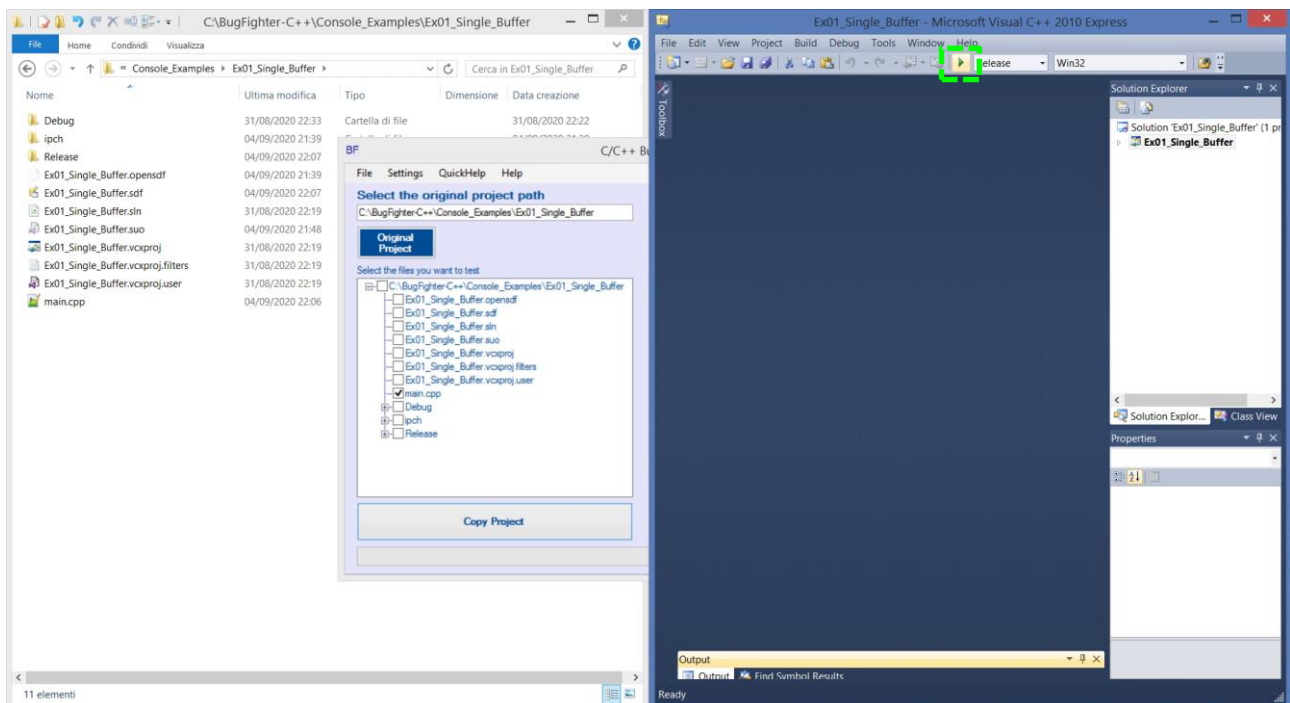
Select “Yes” to reload the project



10. Select “Reload”



11. Select “Run”



12. During run-time the test code will detect the error and write the message on the console:

Error n. 1

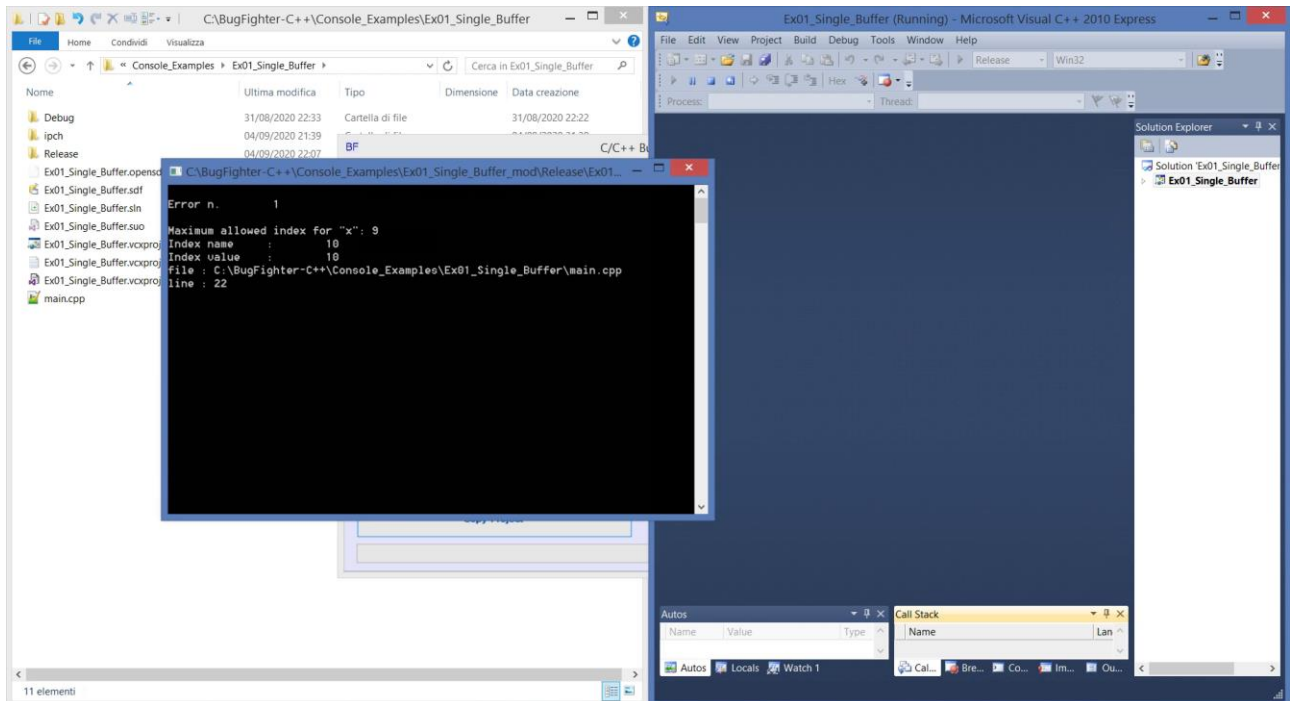
Maximum allowed index for "x": 9

Index name : 10

Index value : 10

file : C:\BugFighter-C++\Console_Examples\Ex01_Single_Buffer\main.cpp

line : 22



13. During run-time the test code will detect the error and write the message in a text file "Errors.txt":

Error n. 1

Maximum allowed index for "x": 9

Index name : 10

Index value : 10

file : C:\BugFighter-C++\Console_Examples\Ex01_Single_Buffer\main.cpp

line : 22

