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SCALE FOR PROJECT FT_CONTAINERS (/PROJECTS/FT_CONTAINERS)

You should evaluate 1 student in this team



Git repository

git@vogsphere-v2-bg.1337.ma:vogsphere/intra-uuid-a1c54e9a-a183-48f0-



Introduction

Please comply with the following rules:

- Remain polite, courteous, respectful and constructive throughout the evaluation process. The well-being of the community depends on it.
- Identify with the student or group whose work is evaluated the possible dysfunctions in their project. Take the time to discuss and debate the problems that may have been identified.
- You must consider that there might be some differences in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade them as honestly as possible. The pedagogy is useful only and only if the peer-evaluation is done seriously.

Guidelines

- Only grade the work that was turned in the Git repository of the evaluated student or group.
- Double-check that the Git repository belongs to the student(s). Ensure that
 the project is the one expected. Also, check that 'git clone' is used in an
 empty folder.
- Check carefully that no malicious aliases was used to fool you and make you evaluate something that is not the content of the official repository.
- To avoid any surprises and if applicable, review together any scripts used to facilitate the grading (scripts for testing or automation).
- If you have not completed the assignment you are going to evaluate, you have to read the entire subject prior to starting the evaluation process.

- Use the available flags to report an empty repository, a non-functioning program, a Norm error, cheating, and so forth.

 In these cases, the evaluation process ends and the final grade is 0, or -42 in case of cheating. However, except for cheating, student are strongly encouraged to review together the work that was turned in, in order to identify any mistakes that shouldn't be repeated in the future.
- You should never have to edit any file except the configuration file if it exists. If you want to edit a file, take the time to explicit the reasons with the evaluated student and make sure both of you are okay with this.
- You must also verify the absence of memory leaks. Any memory allocated on the heap must be properly freed before the end of execution.

 You are allowed to use any of the different tools available on the computer, such as leaks, valgrind, or e_fence. In case of memory leaks, tick the appropriate flag.

Attachments

ubject.pdf (https://cdn.intra.42.fr/pdf/pdf/47184/en.subject.pdf)

main.cpp (/uploads/document/document/8320/main.cpp)

Preliminary tests

If cheating is suspected, the evaluation stops here. Use the "Cheat" flag to report it. Take this decision calmly, wisely, and please, use this button with caution.

Prerequisites

The code must compile with c++ and the flags -Wall -Wextra -Werror.

The code should also compile with the flag -std=c++98

Don't forget this project has to follow the C++98 standard. Thus, C++11 (and later) functions or containers are NOT expected.

Any of these means you must not grade the exercise in question:

- A function is implemented in a header file (except for template functions).
- A Makefile compiles without the required flags and/or another compiler than c++.

Any of these means that you must flag the project with "Forbidden Function":

- Use of a "C" function (*alloc, *printf, free).
- Use of a function not allowed in the exercise guidelines.
- Use of "using namespace" or the "friend" keyword (in this project, the "friend" keyword is allowed for specific uses, you'll see).

C++98. - Use of a STL container to implement another container.						
Mandatory part						
Verify that each mandatory container is correctly implemented. If the vector or the	e man is missing, check the "Incomplete work" flag					
But note the project can be passed without the stack. Do not hesitate to ask to the						
main.cpp is available to download on this page. It should compile with the studer	,					
turn in their own tests.						
Vector - Basics						
Make sure that every member function, non-member function and overload is						
present and works as expected. Same thing for iterators.						
Use the STL container to check that everything works the same way.						
	imesNo					
Vector - Advance						
- The inner data structure should be a dynamic array.						
- const_iterator and iterators should be comparable.						
- Check the dynamic reallocation system.						
- Test the swap() function:						
After swap, all the iterators, pointers and references pointing to						
elements in both containers remain valid and are now pointing to the same elements than before the call but in the other container (where						
they now iterate).						
- Check that the friend keyword is used only for the relational operators.						
⊗ Yes	$ imes_{No}$					
Vector - Performance						
Make sure that the speed is reasonable compared to the STL container! For example, a deep copy should allocate all the memory in one call.						
⊘ Yes	×N₀					
Map - Basics						
Make sure that every member function, non-member function and overload is						
present and works as expected. Same thing for iterators.						
Use the STL container to check that everything works the same way.						
⊗ Yes	\times No					

Map - Advance

- Check the inner structure. It should be an ordered tree (AVL tree, Red-Black tree, and so forth). For example, a simple array is not ok.
- Verify that pair<> is recoded and used.
- Verify that ft::make_pair() behaves as expected.
- There mustn't be several identical keys. Each key must be unique in map.
- Check that the keys are sorted using the comparison function (see Compare).
- Check std::allocator and allocator::rebind are used and there's no direct usage of new (rebind could be used in the tree).
- Check that insertion and deletion (erase) do not invalidate iterators.
- The swap() function should not move data but only pointers.
- Check that the friend keyword is used only for the relational operators and map::value_compare.
- There's no memory leak.

✓ Yes

 \times_{No}

Map - Performance

Make sure that the speed is reasonable compared to the STL container!

Slower than the STL map is ok.

A complete timeout is not.

If it's more than 20 times slower than the map STL, count it false.

✓ Yes

 \times_{No}

Stack - Basics

Make sure that every member function, non-member function and overload is present and works as expected.

Use the STL container to check that everything works the same way.

✓ Yes

 \times_{No}

Stack - Advance

- The default underlying container must be the vector of the student.
- The underlying container must be protected and not private!
- The standard containers vector, deque and list are compatible as underlying containers.
- The stack cannot be iterate.

✓ Yes

 \times No

Bonus part

		andatory part has been en ndatory points were not po			e error management handles points must be totally	
Set						
present and works o	ry member function, non- as expected. Same thing f er to check that everythin		oad is			
	ture must be a Red-Black					
Ask the evaluated s		oes it work? If you have an	у			
The only bonus here	e is for the Red-Black tree!					
	∀Yes			imesNo		
Ratings Don't forget to chec	ck the flag corresponding ✓ Ok	to the defense	*	Outstanding proje	ct	
Empty work	■ Incomplete work	nvalid compilation	🖷 Cheat	T Crash	▲ Concerning situation	
	▲ Leaks		Ġ.	Forbidden function	on	
Conclusi						
		Finish evalua	tion			
or video surveillance	Rules of	orocedure	Declaration on t	ne use of cookies	General term of use of	

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