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SCALE FOR PROJECT ABSTRACT VM (/PROJECTS/ABSTRACT-VM)

You should correct 1 student in this team

★

Git repository

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Introduction

Please respect the following rules:

- Remain polite, courteous, respectful and constructive throughout the correction process. The well-being of the community depends on it.

- Identify with the person (or the group) graded the eventual dysfunctions of the work. Take the time to discuss and debate the problems you have identified.

- You must consider that there might be some difference in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade him/her as honestly as possible. The pedagogy is valid only and only if peer-evaluation is conducted seriously.

Guidelines

- Only grade the work that is in the student or group's GiT repository.

- Double-check that the GiT repository belongs to the student or the group. Ensure that the work is for the relevant project and 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 other than the content of the official repository.

- To avoid any surprises, carefully check that both the correcting and the corrected students have reviewed the possible scripts used to facilitate the grading.

- If the correcting student has not completed that particular project yet, it is mandatory for this student to read the entire subject prior to starting the defence.

- Use the flags available on this scale to signal an empty repository, non-functioning program, a norm error, cheating etc. In these cases, the grading is over and the final grade is 0 (or -42 in case of

cheating). However, with the exception of cheating, you are encouraged to continue to discuss your work (even if you have not finished it) in order to identify any issues that may have caused this failure and avoid repeating the same mistake in the future.

Attachments

Subject (/uploads/document/document/72/abstract-vm.en.pdf)

Preliminaries

Preliminaries tests

Check firstly the following elements:

- There is something in the git repository.
- No cheating (All functions are authorised, the student can explain the code, ...)

If an element isn't implemented as explained in the subject, the grading ends. Use the appropriate flag. You're allowed to debate some more.

Yes No

Feature's testing

Test 1

Run the following program:

```
push int32(42)
push int32(33)
add ;poney
push float(44.55)
mul
push double(42.42)
;commentaire de ouf
push int32(42)
dump
pop
assert double(42.42)
exit
```

Does the program execute properly?

Yes No

Test 2

Run the following program:

```
push int32(32)
push int32(0)
div
```

```
exit
```

Does the program stops properly because of the 0 division?

☑ Yes ☒ No

Test 3

Run the following program:

```
push int16(9999999999999999999999999999)
exit
```

Does the program stops properly because of the overflow error?

☑ Yes ☒ No

Test 4

Run the following program:

```
push int16(32 ;)
pu int(32))
exit
```

Does the program stops properly because of a syntax error?

☑ Yes ☒ No

Test 5

Run the following program:

```
pop
exit
```

Does the program stops properly because of an empty stack?

☑ Yes ☒ No

Test 6

Run the following program:

```
push int32(42)
assert int32(0)
exit
```

Does the program stops properly on an assert error?

☑ Yes ☒ No

Test 7

Run the following program:

```
push int32(42)
add
```

exit

Does the program stops properly on a missing operand?

Yes No

Test 8

Run the following program:

```
push int8(33) ;!
push int8(112) ;p
push int8(111) ;o
push int8(108) ;l
push int8(112) ;p
print
pop
print
pop
print
pop
print
pop
print
pop
exit
```

Does the program run properly and display the following output?

```
p
l
o
p
!
```

Yes No

Custom test

Run your own tests. For example, run operation with mixed types, really big or really small numbers (overflow and underflow excluded).

Does the program run as expected?

Yes No

Difficult custom test

Run a really complicated program of your invention (a vicious test basically).

Does the program run as expected?

Yes No

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Implementation

Inputs

The VM must be able to read either from a file or from the standard input
(with a ;; to end the input)

Yes No

Stack

The VM countains a "stack". It can't be a std::stack except if
rigorously justified (std::stack isn't iterable, it can at best
be used as a base class).

Yes No

Polymorphic operands

Are operand manipulated polymorphicaly through IOperand *.
If not, the project is off topic. Click on the "crash" flag,
the grading stops but you're allowed to debate some more.

Yes No

Operand factory

There must be an operand "factory" implementing the following function:

IOperand * SomeClass::createOperand(eOperandType type, const std::string & value);

Yes No

Precision management

The VM manages precision in a non trivial way - An if forest or any
other disgusting thing. An enum is totally acceptable for example.

Yes No

Parser

The VM has a clean and clomplete parsing?

Yes No

Exceptions

The VM must use exceptions to manage errors.

Select the corresponding grade:
- No exceptions: 0
- Scalar exceptions (string, char*, int, ...): 1
- Use of pre-made exceptions (only std::exception ou autre): 2
- Use of custom exceptions custom inheriting from std::exception: 3
- Use of custom exceptions custom inheriting from a more specific class
than std::exception: 4

Rate it from 0 (failed) through 5 (excellent)

5

Bonus

Complete verification

The VM is capable of ouputing every error in a file, and doesn't stop at the first error met (interpretation excluded).

☑ Yes ☒ No

Advanced parsing

The parsing is well structured, more specificaly a lexer / parser combo with well defined roles as it should be in reality.

☑ Yes ☒ No

Other bonus

Count in this section the different bonuses. You can grade up to 5 distinctive bonuses.

Each bonus must be :
- At the very least useful (up to you)
- Well implemented and 100% functional

Rate it from 0 (failed) through 5 (excellent)

5

Ratings

Don't forget to check the flag corresponding to the defense

✔ Ok ★ Outstanding project

Empty work Incomplete work No author file Invalid compilation

Norme Cheat Crash Incomplete group

Conclusion

Leave a comment on this evaluation

🔥🔥🔥

Finish evaluation