

# Instructions for Programming Assignment

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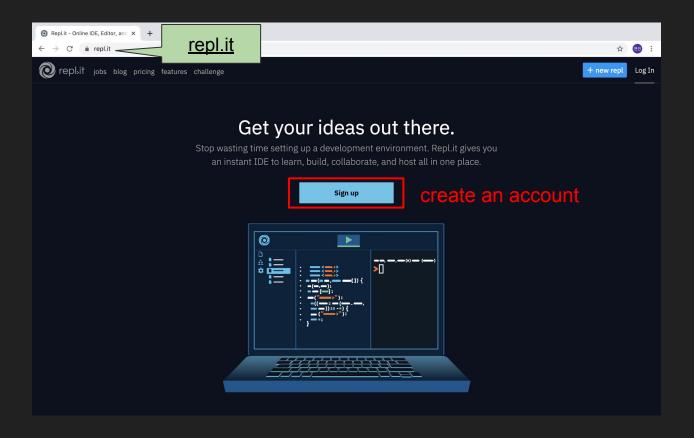
### Overview

- How to configure C++ environment
  - o Online environment repl.it
  - Offline environment CLion editor
- Programming Assignment Guidance
- How to submit your code

# How to configure C++ environment

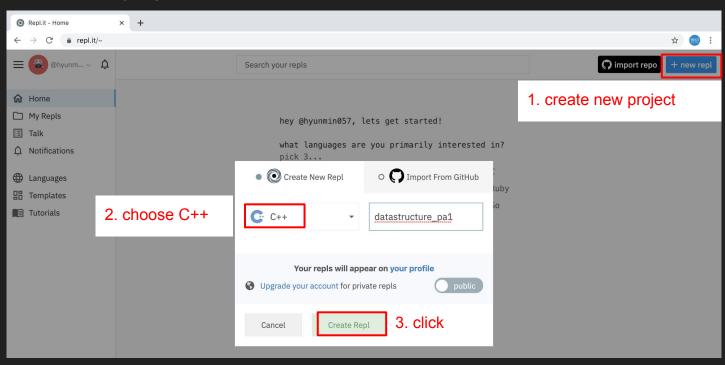
Option 1) Online compiler Repl.it

# Repl.it



# Repl.it

1. create a new project



# Repl.it

2. add pa1.cpp, evaluate.cpp, answer.txt files to the project

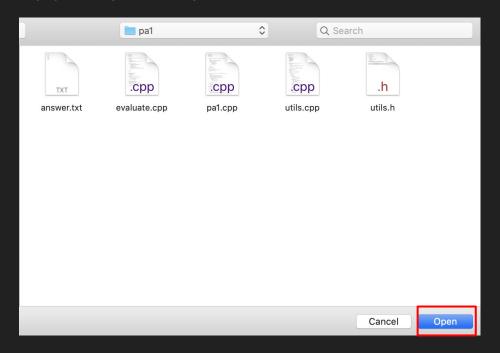
```
@hyunmin057/datastructure_pa1 /
                                                                   invite 8+
                                                                                                                                       import repo
                                                                                   run >
                                                                                                share 🗁
                                                                                                                                                        + new repl
        C No description
                                                                                                                                                                 Files 🔓
                           main.cpp
                               #include <iostream>
📀 main.cpp
                                                                                                                                                                E
                               int main() {
answer.txt
                                    std::cout << "Hello, World!" << std::endl;</pre>
evaluate.cpp
                                   return 0;
pa1.cpp
   utils.cpp
utils.h
```

drag & drop

Option 2) CLion editor

# CLion

1. unzip pa1.zip then open the folder in CLion



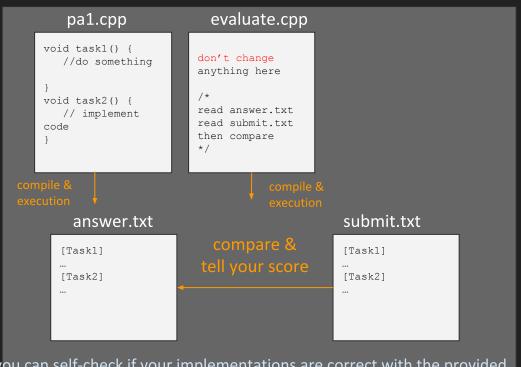
### CLion

2. you can see the CLion as below

```
■ pal ⟩ ♣ pal.cpp
                v mpa1 ~/CLionProjects/pa1
                            CMake project is not loaded
     # utils.cpp
     atils.h
  ⊞ 6: TODO ☑ Terminal
                                                                                                         1:1 LF + UTF-8 + 4 spaces + Context: <no context> 🧣 🖶 🌴
```

# Overall process

#### **Provided for the students**



#### NOT provided for the students

real test cases real answer.txt

this will be your actual score :)

you can self-check if your implementations are correct with the provided

- 1. open *pa1.cpp* file and fill the functions.
  - \*Some functions may not need to implement the code.

```
[Task 1] Choose the TIGHT bound of the following arrayMax function
       - int: the maximum element in A
void task_1(ofstream &fout) {
   int answer = 0; // TODO: Change to your answer You need to complete the TODO
   fout << "[Task 1]" << endl;
   fout << answer << endl:
    return;
```

- 2. open *pa1.cpp* file and fill the functions.
  - \*Some functions may need to implement the code.

```
void task_3(ofstream &fout, InstructionSequence* instr_seq) {
    string answer;
    //////// TODO: Implement From Here
    for (int i=0; i<instr seq->length; i++) {
       string command = instr seg->instructions[i].command;
       if (command.compare("append") == 0) {
           /* TODO: Implement */
       } else if(command.compare("insert at") == 0) {
            /* TODO: Implement */
    fout << "[Task 3]" << endl:
    fout << answer << endl:
```

- 3. When you are done, run pa1.cpp
  - Repl.it user: type as below in terminal
  - CLion user: type as below in terminal, refer to the <u>link</u> for opening the terminal
  - \*\* note that you need to specify the compiler version to 11 by -std=c++11

- g++ -std=c++11 -o pa1.exe pa1.cpp utils.cpp
- ./pa1.exe

- 4. Step3 will generate *submit.txt* file which contains your answer
  - Repl.it

```
ls
answer.txt evaluate.cpp main.cpp pa1.cpp utils.cpp utils.h
g++ -std=c++11 -o pa1.exe pa1.cpp utils.cpp ← running this line will create pa1.exe
ls
answer.txt evaluate.cpp main.cpp pa1.cpp pa1.exe utils.cpp utils.h
./pa1.exe ← running this line will create submit.txt
ls
answer.txt evaluate.cpp main.cpp pa1.cpp pa1.exe submit.txt
utils.cpp utils.h

I
```

CLion: submit.txt file will be generated in [cmake-build-debug] folder

5. check your score by running *evaluate.cpp* file. This will compare your answer *submit.txt* with the provided answer *answer.txt*.

#### Repl.it & CLion

```
    g++ -std=c++11 -o evaluate.exe evaluate.cpp
    ./evaluate.exe
    Your score is 3
    note that this is not your actual score since we might use other test cases from what we've provided
```

# Try TODAY!

Even if the process looks not familiar to you, that is normal.

If you are not sure, please use Q&A or discuss it with your friends.



# How to submit your work

### Via POSTECH-LMS

- 1. Go to LMS(<a href="https://lms.postech.ac.kr/">https://lms.postech.ac.kr/</a>)
  - $\rightarrow$  CSED233-01  $\rightarrow$  Learning activity  $\rightarrow$  assignments
- 2. Submit your pa1.cpp file (not answer.txt, submit.txt file)
- Please be aware... we won't accept email submissions

Q&A