Instructions for Programming Assignment

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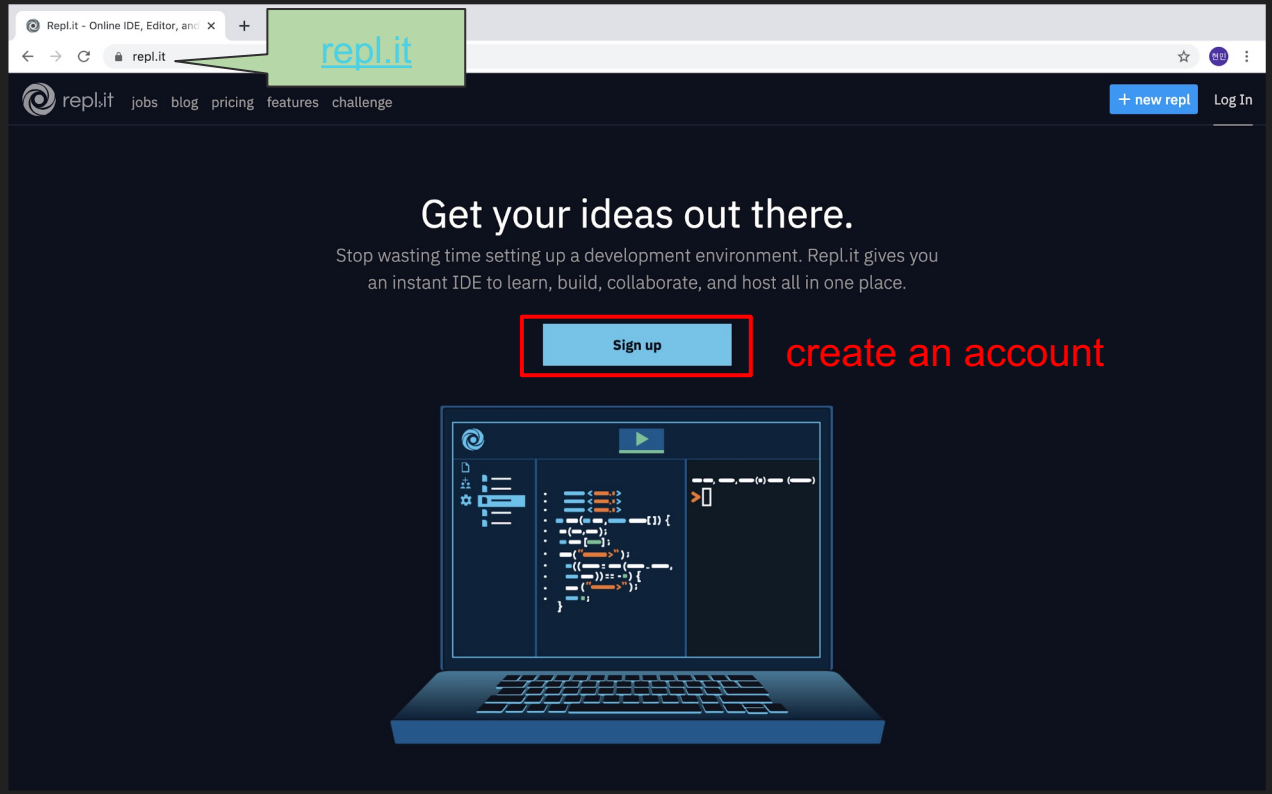
Overview

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

How to configure C++ environment

Online compiler Repl.it

Repl.it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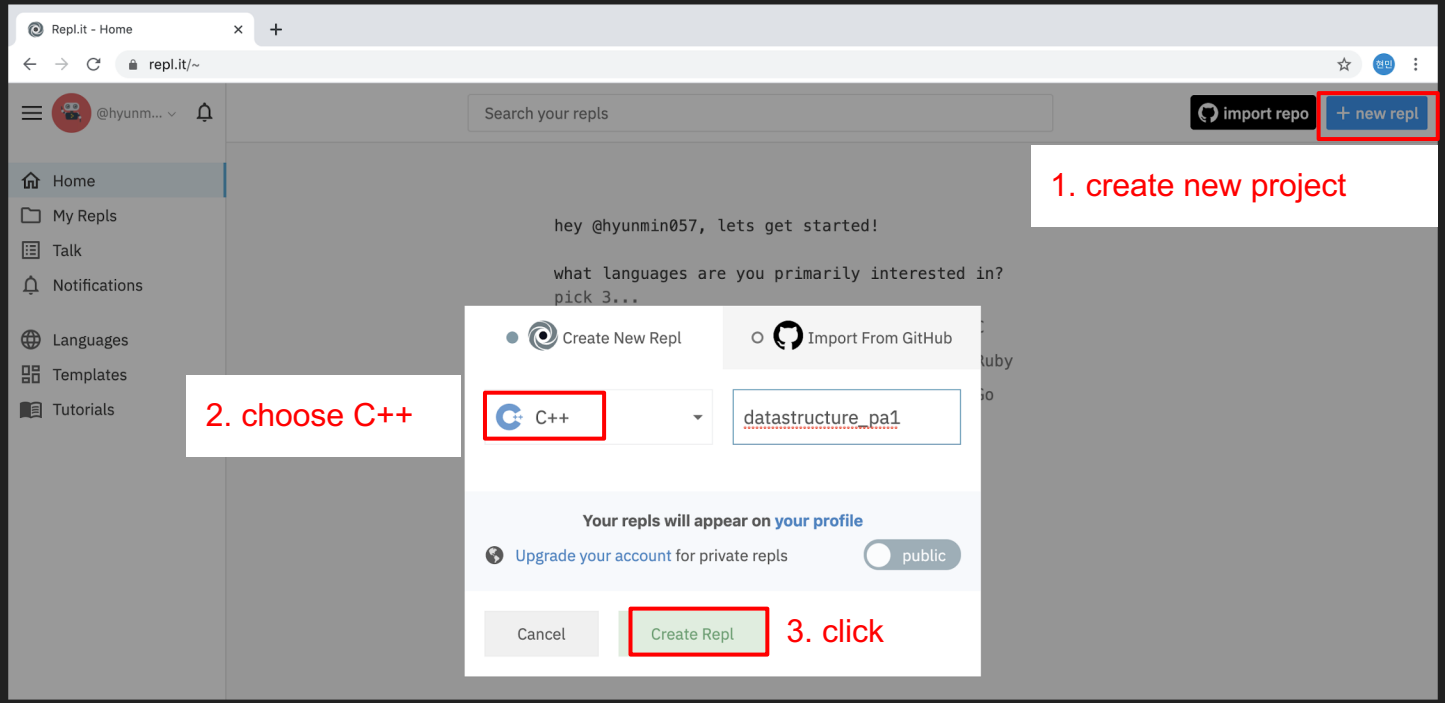
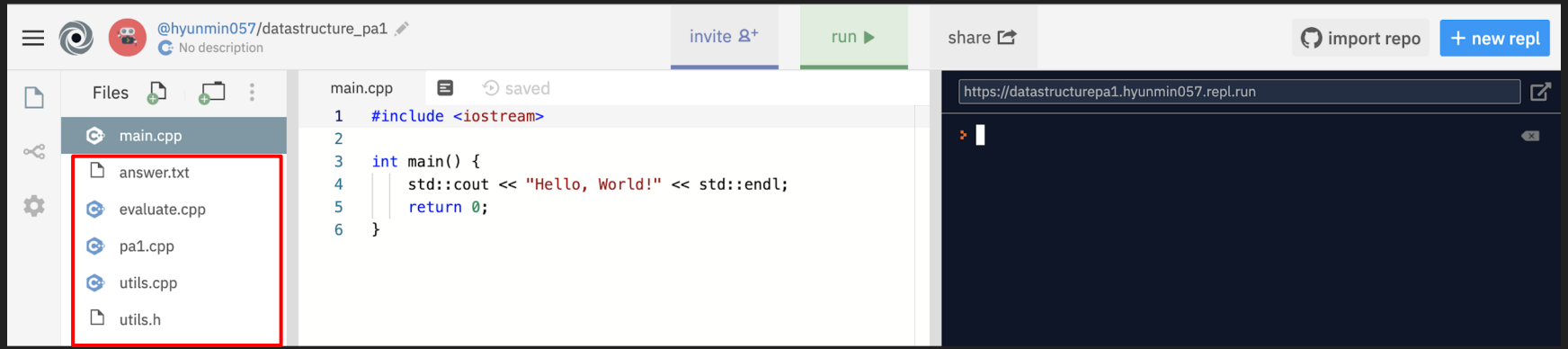
Repl.it

1. create a new project



Repl.it

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

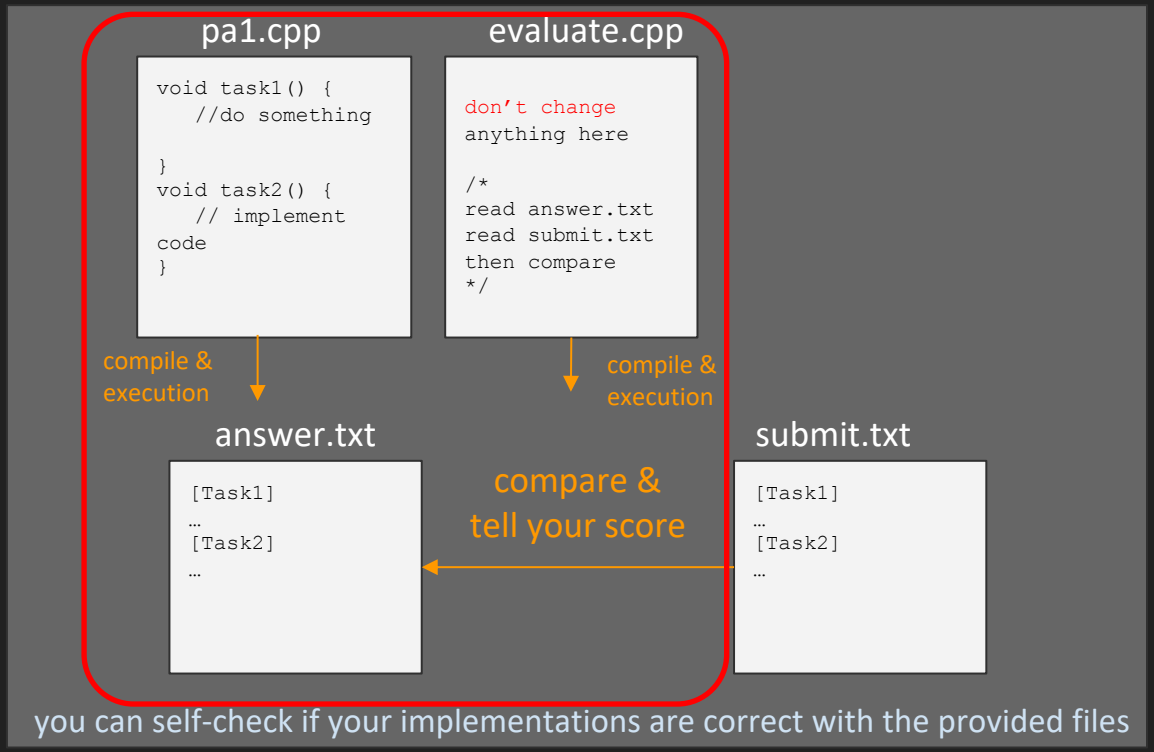


drag & drop

Programming Assignment Guidance

Overall process

Provided for the students



NOT provided for the students

real_test cases

real answer.txt

this will be your actual score :)

Programming Assignment guidance

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

    *arrayMax*
        Input
        - int n: the length of the input array (n >=1)
        - int* A: an array storing n >= 1 integers
        Output
        - int: the maximum element in A
        int arrayMax(int n, int* A) {
            int currMax = A[0];
            for (int i=1; i < n; i++)
                if (currMax < A[i])
                    currMAx = A[i];
            return currMax;
        }
    Choices
        1: O( 1 )
        2: O( n )
        3: O( n log(n) )
        4: O( n^2 )
*/
void task_1(ofstream &fout) {
    int answer = 0;  // TODO: Change to your answer

    fout << "[Task 1]" << endl;
    fout << answer << endl;

    return;
}
```

explanation of the task

you need to complete the TODO

Programming Assignment guidance

2. open *pa1.cpp* file and fill the functions.

   *Some functions may need to implement the code.

```
/*
    [Task 3] List
    Description:
        Implement a function which can append an integer or insert “0” into the list.
        An user can specify the position where 0 will be inserted.
        If the index is out of range of the given list, print “error”
    Input:
        Sequence of commands, which is one of the following
        - (‘append’, integer): append {integer} at the tail of list
        - (‘insert_at’, index): insert “0” at the index
    Output:
        - Values in the list, in string separated with spacebar
        - “error” if the index is out of range
*/
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_seq->instructions[i].command;
        if (command.compare("append") == 0) {
            /* TODO: Implement */


        } else if(command.compare("insert_at") == 0) {
            /* TODO: Implement */


        } else {
            cerr << "Invalid command" << endl;
            exit(-1);
        }
    }
    ///////////      End of Implementation      //////////////
    ////////////////////////////////////////////////////

    fout << "[Task 3]" << endl;
    fout << answer << endl;
}
```

explanation of the task

you need to complete the TODO

Programming Assignment guidance

3. When you are done, run *pa1.cpp*

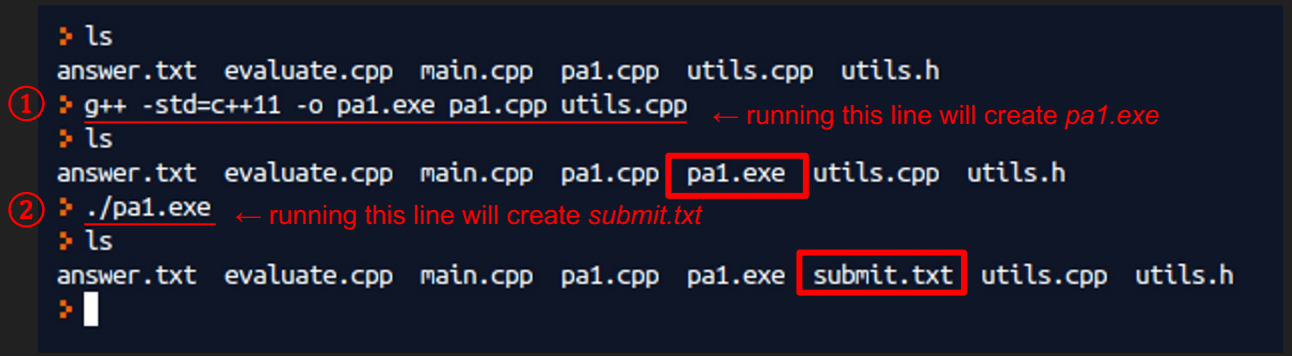
- Type as below in terminal
- ** note that you need to specify the compiler version to 11 by ***-std=c++11***

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

Programming Assignment guidance

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

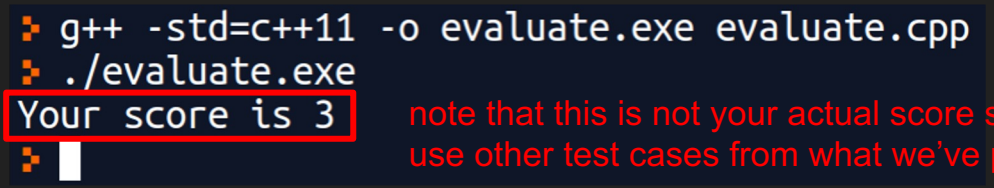
- **Repl.it**



Programming Assignment guidance

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

- **Repl.it**



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.

Animal Crossing, © Nintendo

How to submit your work

Via POSTECH-LMS

1. Go to PLMS(https://plms.postech.ac.kr/)
   → CSED233-01 → Learning activity → assignments

2. Submit your pa1.cpp file (not answer.txt, submit.txt file)
3. Please be aware... we won’t accept email submissions

Q&A