

Instructions for using the CCC Grader

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How to register for an account on the CCC Grader

1. To create an account on the CCC Grader, go to:

<http://cccgrader.com/register.php>

and fill out the necessary information. You will need to your schools CEMC “school number”, which is what was used to register your school for the CCC: your math or computer science teacher will have that number.

The biographical information on that page should be self-explanatory.

2. The supervising teacher will need to authenticate you as a student. They can do so by following the instructions outlined in the section [How to authenticate a student](#)
3. Once you are authenticated, you will receive an email message of the form:

Your account in the CCC Contest System has been created.

You can log in at <http://cccgrader.com/index.php>.

Your username is “XXXXXXX” and your password is the one you chose during registration.

Good luck on the contest!

You can then login to the CCC Grader and submit solutions to contests. Full details can be found in the next section, [How to use the CCC Grader](#)

Note: Teacher **do not** need to create an account for themselves. Each school has its own “school account” which teachers can use to submit solutions to problems. See the section [How to use your “school account”](#).

How to use the CCC Grader

1. Login to:

<http://cccgrader.com>

using your CCC Grader userid and password.

2. “Enter” a contest from the main page.
3. Select a “Problem” to submit a solution for.
4. Select a “Language” from the drop-down list.
5. Upload a file using the “Browse” button
6. Click the “Submit” button
7. You will be brought to the submission page which gives you information about your submission as it run on all test cases. You can see your score, and you may wish to refresh this page to be updated on the status of your submission.
8. To return to the contest page and submit another solution to a problem, click on “Contest”

How to authenticate a student

1. Teachers should login to:

<http://cccgrader.com/teachers/>

You will need to enter your CEMC school number and your school password.

2. Once you login to the system, you should “Approve” (or, if they are not your student, “Delete”) your “Unverified Users”. Students will then receive a message saying that they can use the CCC On-line Grading system, and that email will contain their userid.

How to reset student passwords

1. Teachers should login to:

<http://cccgrader.com/teachers/>

You will need to enter your CEMC school number and your school password.

2. Locate the user that you wish to update the password for in your “School Roster”
3. Type the new password into the “Password” field
4. Click the “Update” button
5. This will cause an email to be sent to the email address associated with that user (which you can see in that same row of the “School Roster” table). As sample of such an email is shown below:

Your CCC Contest System password has been reset by your teacher.

You can log in to the system by accessing <http://cccgrader.com/index.php> with the following credentials:

username: “USERNAME”

password: “NEWPASSWORD”

How to graduate/ungraduate/hide students

How to graduate a student

1. Teachers should login to:

<http://cccgrader.com/teachers/>

You will need to enter your CEMC school number and your school password.

2. Locate the user that you wish to graduate in your “School Roster” table.
3. Click on “Graduate”. This will move the student from your “School Roster” table to the “School Alumni” table.

How to un-graduate a student

1. Teachers should login to:

<http://cccgrader.com/teachers/>

You will need to enter your CEMC school number and your school password.

2. Locate the user that you wish to un-graduate in your “School Alumni” table.
3. Click on “Un-Graduate”. This will move the student from your “School Alumni” table to the “School Roster” table.

How to hide a student

1. Teachers should login to:

<http://cccgrader.com/teachers/>

You will need to enter your CEMC school number and your school password.

2. Locate the user that you wish to hide in your “School Alumni” table.
3. Click on “Hide”. This will remove the student from your “School Alumni”.

Notes:

- You cannot “un-hide” a student: it is a permanent operation.
- Hiding does not delete student record: it is still stored in our database system, so the student may continue to use that userid to solve problems on the CCC Grader.

How to monitor student performance

1. Teachers should login to:

<http://cccgrader.com/teachers/>

You will need to enter your CEMC school number and your school password.

2. Under “Contests”, find the contest results you wish to see.
3. Click on the “Scoreboard”

Note: the scoreboard will be updated in real-time; simply refresh the page to see any updates.

How to use your “school account”

1. Teachers should login to:

<http://cccgrader.com/>

using your CEMC school number and your school password. Note that this site is the “user” login page.

2. Follow the direction indicated in the section, [How to use the CCC Grader](#), if you wish to submit solutions to any contest problems.
3. You may also view student solutions/submissions from your school on a specific contest selecting that “Contest” and then scroll down to “All Submissions” at the bottom of the page. Clicking on a submission will show what the student submitted, as well as the result of the submission.

General Rules

Java Programs

All Java programs **must** be written in a file called `Main.java`, and thus have:

```
public class Main
```

as the classname in that file. Compilation will fail otherwise.

Submissions

We will accept up to 50 submissions per problem. They may submit at most once per minute to any particular problem.

Contest Scoring

We take the maximum score over all submissions for each problem as the student score. We will take the maximum score between the Junior and Senior contest as the student's score.

References and improper use

During the contest, students may only use the internet for contest submission and electronic references, such as

<http://www.cplusplus.com/reference/>

or

<http://docs.oracle.com/javase/8/docs/api/>

All other use (email, chat, Google search, code forums, etc.) is forbidden. Use of such tools, or collaboration with other students during the contest will result in severe penalties:

- the student will receive a score of 0 on the CCC;
- their school will be notified;
- the student will be banned from all future CCC contests.

Thus, the teacher should put in “best efforts” to prevent students from accessing forbidden resources on the internet, but the onus is really on the student to do their own work.

C solution to 2012 CCC Senior Problem S1 “Pass the Ball”

Compiler Version: GCC version 4.8.4

Sample Program – s1.c

```
#include <stdio.h>

int main() {
    int J;
    scanf("%d",&J);
    printf("%d\n",((J-1)*(J-2)*(J-3))/6);
    return 0;
}
```

C++ solution to 2012 CCC Senior Problem S1 “Pass the Ball”

Compiler Version: GCC 4.8.4

Sample Program – s1.cc

```
#include <iostream>

using namespace std;

int main() {
    int J;
    cin >> J;
    cout << ((J-1)*(J-2)*(J-3))/6 << endl;
    return 0;
}
```

Pascal solution to 2012 CCC Senior Problem S1 “Pass the Ball”

Compiler Version: Free Pascal Compiler (FPC) version 2.6.2

Sample Program – s1.pas

```
program s1;

var
    J : integer;
begin
    readln(J);
    writeln((((J-1)*(J-2)*(J-3)) div 6));
end.
```

Java solution to 2012 CCC Senior Problem S1 “Pass the Ball”

Compiler Version: javac 1.8.0

Sample Program – Main.java

```
import java.io.*;
import java.util.*;

public class Main {
    public static void main(String [] args) throws Exception {
        Scanner in = new Scanner(System.in);
        int J = in.nextInt();
        System.out.println(((J-1)*(J-2)*(J-3))/6);
    }
}
```

Notes:

- The class for Java submissions must be `Main` (i.e., the 3rd line of the above program)
- Do not put your program in any `package`.

Python2 solution to 2012 CCC Senior Problem S1 “Pass the Ball”

Compiler Version: Python 2.7.6

Sample Program – s1.py

```
J = int(raw_input())  
print (((J-1)*(J-2)*(J-3))/6)
```

Python3 solution to 2012 CCC Senior Problem S1 “Pass the Ball”

Compiler Version: Python 3.4.0

Sample Program – s1.py

```
J = int(input())  
print (((J-1)*(J-2)*(J-3))/6)
```


PHP solution to 2012 CCC Senior Problem S1 “Pass the Ball”

Compiler Version: PHP 5.5.9

Sample Program – s1.php

```
<?php
$J = trim(fgets(STDIN));
echo (((($J-1)*($J-2)*($J-3))/6)."\n";
?>
```

Perl solution to 2012 CCC Senior Problem S1 “Pass the Ball”

Perl Compiler Version: Perl v5.18.2

Sample Program – s1.pl

```
$J = <>;  
printf "%d\n", ((($J-1)*($J-2)*($J-3))/6);
```