

## Sample solutions in supported languages

- C
- C++
- Pascal
- Java
- Python 2.x
- Python 3.x
- PHP
- Perl

# 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);
```