

## Sample solutions in supported languages

- C
- C++
- Java
- Python 2
- Python 3

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

Compiler Version: GCC version 11.4.0

Compiler Options: -O2 -lm -static

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 11.4.0

Compiler options: -O2 -std=c++17 -static

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;
}
```

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

Compiler Version: OpenJDK javac 17.0.10

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: Pypy 7.3.9 (running Python 2.7.18)

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: Pypy3 7.3.9 (running Python 3.8.13)

Sample Program – s1.py

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