

Armenian Independence Cup 2014, October 19

- The following constraints hold for all problems.

Time Limit: 1 sec

Memory Limit: 256 MB

Stack Size Limit: 64MB

- There is no penalty for Compile Errors.

Your program should always read from standard input and write to standard output. Here are sample programs illustrating input and output written in more common languages.

C/C++

```
#include <stdio.h>
```

```
int main()
```

```
{
    int a;
    long long b;
    float c;
    double d;
    scanf("%d%lld%f%lf", &a, &b, &c, &d);
    printf("%lld\n%f %.2lf", b - a, c, d);
    return 0;
}
```

C++

```
#include <iostream>
using namespace std;
```

```
int main()
```

```
{
    int a;
    long long b;
    float c;
    double d;
    cin >> a >> b >> c >> d;
    cout << b - a << '\n';
    cout << " " << d;
    return 0;
}
```

Java

```
import java.util.Scanner;
```

```
public class Main {
```

```
    public static void main(String[] args) {
        int a;
        long b;
        float c;
        double d;
        Scanner in = new Scanner(System.in);
        a = in.nextInt();
        b = in.nextLong();
        c = in.nextFloat();
        d = in.nextDouble();
        System.out.println(b - a);
        System.out.println(c + " " + d);
        in.close();
    }
}
```

If you use C++ you may need to use **scanf** instead of **cin**, and **printf** instead of **cout** to avoid exceeding the time limit.

You should use the following lines in your programs for interactive problems. Otherwise the testing system may not recognize your program's output.

C/C++ `fflush(stdout);`

C++ `cout << ... << flush;`

Java `System.out.flush()`

Contact the administrator of the contest if you use a language that is not listed here and you have problems dealing with input or output.

Contest materials (problems, tests and solutions) will be available immediately after the contest finishes at the following address

<https://github.com/saribekyan/rau-fa14-contest>

Good luck!