

Problem A: Hello, World!

Points: 0 (This is a test problem only)

Problem Background

Welcome to the 2020 Code Quest competition! We're excited to have you join us. Good luck today!

Before the contest begins, we want to make sure you are able to connect to and use the judging software. This doesn't require you to install or run any special software on your computer; all you need is a web browser, which should already be installed. You can connect to the contest website by going to the URL specified in your registration packet, which also contains your team's username and password.

Once you're connected, continue to the next section to learn how to write and submit your solutions.

Problem Description

We want you to submit a sample program just to make sure everything is working correctly. Don't worry about writing the code; we give you the answers to this problem!

While sample input and output files will be provided to allow you to test your programs on your computers, your programs need to be able to read all input from the standard input channel, and print it to the standard output channel (the console). IDEs such as Eclipse and NetBeans can be configured to feed the contents of these files into your program's standard input. If you run your programs from the command line (in Windows, Mac, or Linux), you can pass the file's content into standard input like so, assuming the source and input files are in the current directory:

```
{command to compile your program}  
{command to run your program} < {input file}
```

Example for C++:

```
g++ -o Prob05.exe Prob05.cpp  
Prob05.exe < Prob05.in.txt
```

Example for Java:

```
javac HelloWorld.java  
java HelloWorld < HelloWorld.in.txt
```

For this sample problem, all we want you to do is print out whatever input you receive. Again, the provided source code will do just that, but you're welcome to try to write your

own solution once you're sure everything is working. We'd also recommend you try your hand at solving Problem B for additional practice.

If you run into any problems now or during the contest, please contact a Lockheed Martin volunteer, who will be happy to help you out. Good luck, and happy coding!

Sample Input

The first line of your program's input, **received from the standard input channel**, will contain a positive integer representing the number of test cases. Each test case will include a single line of text to be reprinted to the standard output channel.

```
2
Welcome to Code Quest!
Good luck today!
```

Sample Output

For each test case, your program must output the provided input line, unchanged.

```
Welcome to Code Quest!
Good luck today!
```

Solution Code

The solution code for each language, and specific details for working with each language, are provided below. **We strongly recommend using this code as a template for solving all other problems during the contest.** When submitting solutions, submit the source code only (e.g. .java, .cpp, .vb, .cs, or .py files); do not submit executable files (e.g. .exe files) or compiled code (e.g. .class files).

Java

DOMJudge supports Java 8. The use of 'package' statements is unnecessary, but will not cause compilation errors.

```
import java.util.Scanner;

public class Prob00 {
    public static void main(String[] args) {
        try (Scanner input = new Scanner(System.in)){
            int testCases = Integer.parseInt(input.nextLine());

            for(int testcase = 0; testcase < testCases; testcase++) {
                System.out.println(input.nextLine());
            }
        }
    }
}
```

Python

DOMJudge supports Python 3.

```
# Recommended imports for all problems
# Some problems may require more
import sys
import math
import string

cases = int(sys.stdin.readline().rstrip())
for caseNum in range(cases):
    print(sys.stdin.readline().rstrip())
```

C#

DOMJudge supports .NET version 4.6 and C# version 6.0.

```
using System;

class CodeQuest {
    static void Main(string[] args) {
        int numTestCases = Convert.ToInt32(Console.ReadLine());

        for(int testCase = 0; testCase < numTestCases; testCase = testCase + 1){
            string text = Console.ReadLine();
            Console.WriteLine(text);
        }
    }
}
```

C++

DOMJudge uses version 7.3.0 of the g++ compiler.

```
// Recommended includes for all problems. Some problems require additional libraries.
#include <iostream>
#include <string>
#include <cmath>
#include <cstdlib>
using namespace std;

int main()
{
    int testCases;
    cin >> testCases;
    string dummy;
    getline(cin, dummy);

    for(int testcase = 0; testcase < testCases; testcase++){
        string text;
        getline(cin, text);
        cout << text << '\n';
    }
}
```

VB.NET

DOMJudge supports .NET version 4.6 and Visual Basic 8.

Option Explicit On

Module HelloWorld

```
Sub Main(args As String())
    Dim i As Integer
    Int32.TryParse(Console.ReadLine(), i)
    Dim test As Integer = 0
    For test = 0 To (i - 1)
        Console.WriteLine(Console.ReadLine())
    Next
End Sub
```

End Module

C

As of 2020, Code Quest no longer provides support for the C programming language. Please use one of the other languages listed above. If your team does not know how to use any other programming languages, please contact a volunteer for assistance.