URI Solution 1262 Multiple Reading in C++ language

[Maniruzzaman-Akash](https://plus.google.com/108723255440558327045" \o "author profile)   [1:53:00 AM](https://urisolve.blogspot.com/2016/11/uri-solution-1262-multiple-reading-in-c.html)    [0](https://urisolve.blogspot.com/2016/11/uri-solution-1262-multiple-reading-in-c.html#comment-form)

URI Online Judge | 1262

Multiple Reading

By TopCoder\* https://urionlinejudge.r.worldssl.net/gallery/images/flags/us.gif USA

**Timelimit: 1**

In many computer systems, multiple processes can read from the same resource during the same clock cycle, but only a single process can write to the resource during a clock cycle. Reads and writes cannot be mixed during the same clock cycle. Given a history of the reads and writes that occurred during a particular computation as a String **trace**, and an int **procs** representing the number of processes used by the computation, calculate the minimum duration of the computation in clock cycles. The **trace** represents each read as an 'R' and each write as a 'W'.

For example, if **trace** is "RWWRRR" and **procs** is 3, then the minimum number of clock cycles is 4: one for the first read, one each for the two writes, and one for the last group of reads.

Input

The input contains several test cases. Each test case is composed by two lines. The first line has a string made out of 1 to 50 characters, where each can be either 'R' or 'W'. The second line contains an integer **P**(1 ≤ **P**≤ 10), which represents the number of processes as a direct indicator of how many read operations can be performed simultaneously. The input stream ends in EOF.

Output

For each test case determine and print the minimum number of clock cycles required to run the given **trace**. For further reference see the examples below.

| Sample Input | Sample Output |
| --- | --- |
| RWWRRR 3 RWWRRRR 3 WWWWW 5 RRRRRRRRRR 4 RWRRWWRWRWRRRWWRRRRWRRWRRWRRRRRRRRRWRWRWRRRRWRRRRR 4 | 4 5 5 3 30 |

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URI Solution 1262 Multiple Reading in C++ language

#include <iostream>

#include <cstring>

using namespace std;

int main()

{

    string s;

    int p, size, ciclos, count;

    while(cin >> s >> p)

    {

        size = s.size();

        ciclos = 0; count = 0;

        for (int i = 0; i < size; ++i)

        {

            if(s[i] == 'R'){

                if(count == 0)

                    ciclos++;

                count++;

                if(count == p)

                    count = 0;

            }else{

                ciclos++;

                count = 0;

            }

        }

        printf("%i\n", ciclos);

    }

    return 0;

}

URI Solution 1235 Inside Out in C++ language

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URI Online Judge | 1235

Inside Out

By TopCoder\* https://urionlinejudge.r.worldssl.net/gallery/images/flags/us.gif USA

**Timelimit: 1**

Your printer has been infected by a virus and is printing gibberish. After staring at several printed pages for a while, you realize that it is printing every line inside-out. In other words, the left half of each line is being printed starting in the middle of the page and proceeding out toward the left margin. Similarly, the right half of each line is being printed starting at the right margin and proceeding in toward the middle of the page.  
  
For example, the line:  
THIS LINE IS GIBBERISH  
  
is being printed as:  
I ENIL SIHTHSIREBBIG S  
  
In the same way, the line " MANGOS " is being printed as "NAM  SOG".Your task is to unscramble a String line from its printed form back into its original order. You can assume that line contains an even number of characters.

Input

The input contains many test cases. The first line of input contains an integer N that indicates the number of test cases. Follow N lines, each one with a string with the maximum of 100 uppercase letters ('A'-'Z') and spaces (' '). that must be unscrambled from its printed form back into its original order, like example above.

Output

Each line of input must produce a line of output, with the decoded message, like example above.

| Sample Input | Sample Output |
| --- | --- |
| 5 I ENIL SIHTHSIREBBIG S LEVELKAYAK H YPPAHSYADILO ABCDEFGHIJKLMNOPQRSTUVWXYZ VOD OWT SNEH HCNERF EGDIRTRAP A DNA SE | THIS LINE IS GIBBERISH LEVELKAYAK HAPPY HOLIDAYS MLKJIHGFEDCBAZYXWVUTSRQPON FRENCH HENS TWO DOVES AND A PARTRIDGE |

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URI Solution 1235 Inside Out in C++ language

#include <iostream>

#include <vector>

#include <cstring>

#include <algorithm>

using namespace std;

int main()

{

    int n, size;

    string s;

    cin >> n;

    for (int i = 0; i <= n; ++i) {

        getline(cin, s);

        if(i == 0)

            continue;

        size = s.length();

        vector<char> v(size);

        for(int j = 0; j < size; ++j){v[j] = s[j];}

        reverse(v.begin(), v.begin() + (size/2));

        reverse(v.begin() + (size/2), v.begin() + size);

        for(int j = 0; j < size; ++j){cout << v[j];}

        cout << endl;

    }

    return 0;

}

URI Online Judge Solution 1142 || PUM

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URI Online Judge | 1142

PUM

Adapted by Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

Write a program that reads an integer N. This N is the number of output lines printed by this program.

Input

The input file contains an integer N.

Output

Print the output according to the given example.

| Input Sample | Output Sample |
| --- | --- |
| 7 | 1 2 3 PUM 5 6 7 PUM 9 10 11 PUM 13 14 15 PUM 17 18 19 PUM 21 22 23 PUM 25 26 27 PUM |

URI Online Judge Solution 1142 || PUM in Java Language

import java.io.IOException;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) throws IOException {

        int N;

        Scanner input = new Scanner(System.in);

        N = input.nextInt();

        for (int i = 1; i <= (4\*N - 1); i+=4) {

            for (int j = i; j <= i+2; j++) {

                System.out.print(j+" ");

            }

            System.out.print("PUM\n");

        }

    }

}

URI Online Judge Solution 1142 || PUM in C Language

#include<stdio.h>

**int** main(){

**int** N, i, j;

scanf("%d", &N);

**for** (i = 1; i <= (4\*N - 1); i+=4) {

**for** (j = i; j <= i+2; j++) {

printf("%d ", j);

}

printf("PUM\n");

}

}

URI Online Judge Solution 1134 || Type of Fuel

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URI Online Judge | 1134

Type of Fuel

Adapted by Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

A gas station wants to determine which of their products is the preference of their customers. Write a program to read the type of fuel supplied (coded as follows: 1. Alcohol 2. Gasoline 3. Diesel 4. End). If you enter an invalid code (outside the range of 1 to 4) must be requested a new code (valid until). The program will end when the inserted code is the number 4.

Input

The input contains only integer and positive values.

Output

It should be written the message: "MUITO OBRIGADO" and the amount of customers who fueled each fuel type, as an example.

| Input Sample | Output Sample |
| --- | --- |
| 8 1 7 2 2 4 | MUITO OBRIGADO Alcool: 1 Gasolina: 2 Diesel: 0 |

Thanks to Cássio F.

URI Online Judge Solution 1134 || Type of Fuel in C Language

#include<stdio.h>

**int** main(){

**int** X = 0, fuel = 0,

customerAlcohol = 0,

customerGasolin = 0,

customerDisel = 0;

**while** (X != 4) {

scanf("%d", &X);

**if** (X == 1) {

customerAlcohol+=1;

}**else if** (X == 2) {

customerGasolin += 1;

}**else if** (X == 3) {

customerDisel += 1;

}

}

//Alcool: 1 Gasolina: 2 Diesel: 0

printf("MUITO OBRIGADO\n");

printf("Alcool: %d\n", customerAlcohol);

printf("Gasolina: %d\n", customerGasolin);

printf("Diesel: %d\n", customerDisel);

}

URI Online Judge Solution 1134 || Type of Fuel in Java Language

import java.io.IOException;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) throws IOException {

       int X = 0, fuel = 0, customerAlcohol = 0, customerGasolin = 0, customerDisel = 0;

        Scanner input = new Scanner(System.in);

        while (X != 4) {

            X = input.nextInt();

            if (X == 1) {

                customerAlcohol+=1;

            }else if (X == 2) {

                customerGasolin += 1;

            }else if (X == 3) {

                customerDisel += 1;

            }

        }

        //Alcool: 1 Gasolina: 2 Diesel: 0

        System.out.print("MUITO OBRIGADO\n");

        System.out.print("Alcool: "+customerAlcohol+"\n");

        System.out.print("Gasolina: "+customerGasolin+"\n");

        System.out.print("Diesel: "+customerDisel+"\n");

    }

}

URI Online Judge Solution 1113 || Ascending and Descending

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URI Online Judge | 1113

Ascending and Descending

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**Timelimit: 1**

Read an undetermined number of pairs of integer values. Write a message for each pair indicating if this two numbers are in ascending or descending order.

Input

The input file contains several test cases. Each test case contains two integer numbers X and Y. The input will finished when X = Y.

Output

For each test case print “Crescente”, if the values X and Y are in ascending order, otherwise print “Decrescente”.

| Input Sample | Output Sample |
| --- | --- |
| 5 4 7 2 3 8 2 2 | Decrescente Decrescente Crescente |

Adjustments and translation by Cássio Favaretto.

URI Online Judge Solution 1113 || Ascending and Descending in JAVA

import java.io.IOException;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) throws IOException {

        int X, Y;

        Scanner input = new Scanner(System.in);

        do {

            X = input.nextInt();

            Y = input.nextInt();

            if (X > Y) {

                System.out.print("Decrescente\n");

            } else if (X < Y) {

                System.out.print("Crescente\n");

            }

        } while (X != Y);

    }

}

URI Online Judge Solution 1113 || Ascending and Descending in C

#include<stdio.h>

**int** main(){

**int** X, Y;

**do** {

scanf("%d%d", &X, &Y);

**if** (X > Y) {

printf("Decrescente\n");

} **else if** (X < Y) {

printf("Crescente\n");

}

} **while** (X != Y);

}

URI Online Judge Solution 1101 || Sequence of Numbers and Sum

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URI Online Judge | 1101

Sequence of Numbers and Sum

Adapted by Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

Read an undetermined number of pairs values ***M***and ***N*** (stop when any of these values is less or equal to zero). For each pair, print the sequence from the smallest to the biggest (including both) and the sum of consecutive integers between them (including both).

Input

The input file contains pairs of integer values ***M***and ***N***. The last line of the file contains a number zero or negative, or both.

Output

For each pair of numbers, print the sequence from the smallest to the biggest and the sum of these values, as shown below.

| Input Sample | Output Sample |
| --- | --- |
| 5 2 6 3 5 0 | 2 3 4 5 Sum=14 3 4 5 6 Sum=18 |

URI Online Judge Solution 1101 || Sequence of Numbers and Sum in JAVA

import java.io.IOException;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) throws IOException {

       int X, Y;

        Scanner input =new Scanner(System.in);

        while (((X = input.nextInt()) > 0 )&&((Y = input.nextInt()) > 0 )) {

            int sum = 0;

            if (X > Y) {

                for (Y = Y; Y <= X; Y++) {

                    sum+=Y;

                    System.out.print(Y+" ");

                }

                System.out.print("Sum="+sum+"\n");

            }else {

                for (X = X; X <= Y; X++) {

                    sum+=X;

                    System.out.print(X+" ");

                }

                System.out.print("Sum="+sum+"\n");

            }

        }

    }

}

URI Online Judge Solution 1101 || Sequence of Numbers and Sum in C

#include<stdio.h>

**int** main(){

**int** X, Y;

**while** (((scanf("%d", &X)) > 0 )&&(((scanf("%d", &Y)) > 0 ))) {

**int** sum = 0;

**if** (X > Y) {

**for** (Y = Y; Y <= X; Y++) {

sum+=Y;

printf("%d ", Y);

}

printf("Sum=%d\n", sum);

}**else** {

**for** (X = X; X <= Y; X++) {

sum += X;

printf("%d ", X);

}

printf("Sum=%d\n", sum);

}

}

}

URI Online Judge Solution 1046 || Game Time

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URI Online Judge | 1046

Game Time

Adapted by Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

Read the start time and end time of a game, in hours. Then calculate the duration of the game, knowing that the game can begin in a day and finish in another day, with a maximum duration of 24 hours. The message must be printed in portuguese “O JOGO DUROU X HORA(S)” that means “THE GAME LASTED X HOUR(S)”

Input

Two integer numbers representing the start and end time of a game.

Output

Print the duration of the game as in the sample output.

| Input Sample | Output Sample |
| --- | --- |
| 16 2 | O JOGO DUROU 10 HORA(S) |

|  |  |
| --- | --- |
| 0 0 | O JOGO DUROU 24 HORA(S) |

|  |  |
| --- | --- |
| 2 16 | O JOGO DUROU 14 HORA(S) |

URI Online Judge Solution 1046 || Game Time in C language

#include <stdio.h>

int main()

{

    int strtTm, endTm, durationTm;

    scanf("%d %d", &strtTm, &endTm);

    durationTm = endTm - strtTm;

    if (durationTm < 0)

    {

        durationTm = 24 + (endTm - strtTm);

    }

    if (strtTm == endTm)

    {

        printf("O JOGO DUROU 24 HORA(S)\n");

    }

    else printf("O JOGO DUROU %d HORA(S)\n", durationTm);

    return 0;

}

URI Online Judge Solution 1038 || Snack

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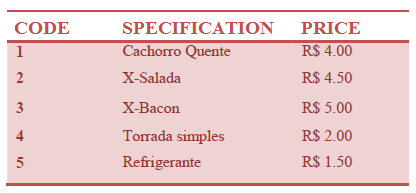
URI Online Judge | 1038

Snack

Adapted by Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

Using the following table, write a program that reads a code and the amount of an item. After, print the value to pay. This is a very simple program with the only intention of practice of selection commands.



Input

The input file contains two integer numbers **X**and **Y**. **X**is the product code and **Y**is the quantity of this item according to the above table.

Output

The output must be a message "Total: R$ " followed by the total value to be paid, with 2 digits after the decimal point.

| Input Sample | Output Sample |
| --- | --- |
| 3 2 | Total: R$ 10.00 |

|  |  |
| --- | --- |
| 4 3 | Total: R$ 6.00 |

|  |  |
| --- | --- |
| 2 3 | Total: R$ 13.50 |

URI Online Judge Solution 1038 || Snack in Java language

import java.io.IOException;

import java.util.Scanner;

/\*\*

 \* IMPORTANT:

 \*      O nome da classe deve ser "Main" para que a sua solução execute

 \*      Class name must be "Main" for your solution to execute

 \*      El nombre de la clase debe ser "Main" para que su solución ejecutar

 \*/

public class Main {

    public static void main(String[] args) throws IOException {

        int X, Y;

        float price = 0;

        Scanner input = new Scanner(System.in);

        X = input.nextInt();

        Y = input.nextInt();

        if (X == 1) {

            price  = (float) (4.00 \* Y);

        }else if (X == 2) {

            price  = (float) (4.50 \* Y);

        }else if (X == 3) {

            price  = (float) (5.00 \* Y);

        }else if (X == 4) {

            price  = (float) (2.00 \* Y);

        }else if (X == 5) {

            price  = (float) (1.50 \* Y);

        }

        System.out.printf("Total: R$ %.2f\n",price);

    }

}

URI Online Judge Solution 1019 || Time Conversion

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URI Online Judge | 1019

Time Conversion

Adapted by Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

Read an integer value, which is the duration in seconds of a certain event in a factory, and inform it expressed in hours:minutes:seconds.

Input

The input file contains an integer **N**.

Output

Print the read time in the input file (seconds) converted in hours:minutes:seconds like the following example.

| Input Sample | Output Sample |
| --- | --- |
| 556 | 0:9:16 |

|  |  |
| --- | --- |
| 1 | 0:0:1 |

|  |  |
| --- | --- |
| 140153 | 38:55:53 |

URI Online Judge Solution 1019 || Time Conversion in C Language

#include<stdio.h>

int main(){

   int h, m, s, n;

   scanf("%d", &n);

   h = n / 3600;

   m = n % 3600 / 60;

   s = n % 60;

   printf("%d:%d:%d\n", h, m, s);

   return 0;

}

URI Online Judge Solution 1017 || Fuel Spent

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URI Online Judge | 1017

Fuel Spent

Adapted by Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

Little John wants to calculate and show the amount of spent fuel liters on a trip, using a car that does 12 Km/L. For this, he would like you to help him through a simple program. To perform the calculation, you have to read spent time (in hours) and the same average speed (km/h). In this way, you can get distance and then, calculate how many liters would be needed. Show the value with three decimal places after the point.

Input

The input file contains two integers. The first one is the spent time in the trip (in hours). The second one is the average speed during the trip (in Km/h).

Output

Print how many liters would be needed to do this trip, with three digits after the decimal point.

| Input Sample | Output Sample |
| --- | --- |
| 10 85 | 70.833 |

|  |  |
| --- | --- |
| 2 92 | 15.333 |

|  |  |
| --- | --- |
| 22 67 | 122.833 |

URI Online Judge Solution 1017 || Fuel Spent in C Language

#include<stdio.h>

int main(){

    int time, av\_value;

    float fuel;

     scanf("%d %d", &time, &av\_value);

     fuel = ((time \* av\_value) / 12.0);

     printf("%.3f\n", fuel);

     return 0;

}

URI Online Judge Solution 1011 || Sphere

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URI Online Judge | 1011

Sphere

Adapted by Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

Make a program that calculates and shows the volume of a sphere being provided the value of its radius (R) . The formula to calculate the volume is: (4/3) \* pi \* R3. Consider (assign) for pi the value 3.14159.

Tip: Use (4/3.0) or (4.0/3) in your formula, because some languages (including C++) assume that the division's result between two integers is another integer. :)

Input

The input contains a value of floating point (double precision).

Output

The output must be a message "VOLUME" like the following example with a space before and after the equal signal. The value must be presented with 3 digits after the decimal point.

| Input Samples | Output Samples |
| --- | --- |
| 3 | VOLUME = 113.097 |

|  |  |
| --- | --- |
| 15 | VOLUME = 14137.155 |

|  |  |
| --- | --- |
| 1523 | VOLUME = 14797486501.627 |

URI Online Judge Solution 1011 || Sphere in C language :

#include<stdio.h>

int main()

{

    int R;

    double V;

    scanf("%d", &R);

    V = ((4.0 / 3) \*3.14159 \* R \* R \* R);

    printf("VOLUME = %.3lf\n", V);

    return 0;

}

URI Online Judge Solution 1081 || DFSr - Depth Hierarchy

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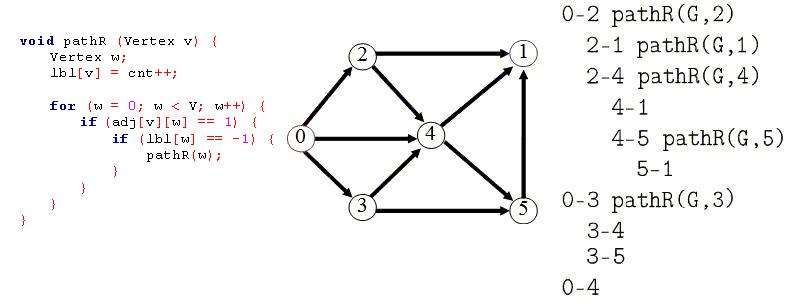
URI Online Judge | 1081

DFSr - Depth Hierarchy

By Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

In graphs, the PathR function is well-known. It's called **dfs**or **dfsr**. It means a recursive deph-searching in nodes of a graph, using backtracking. The task here is, from an input graph, generate the hierarquie design of the searched nodes. To help you, is given the PathR procedure, listed above.



Input

The input file contains many test cases. The first line of the input file contains an integer **N**that represents the quantity of test cases that follows. Each one of **N**test cases contains, in the first line, two informations: (1 ≤ **V** ≤ 20) and **E** (1 ≤ **E** ≤ 20), that are respectively the amount of vertices and edges of the graph. Follow **E**lines containing informations over all of the edges of this graph.

Output

For each test case, an output must be printed that represents a depth search for all nodes, with respect of the hierarquie of each of them. The character ***b*** means a blank space. See the follewing example:  
***bb***0-2 pathR(G,2)  
***bbbb***2-1 pathR(G,1)  
***bbbb***2-4 pathR(G,4)  
***bbbbbb***4-1  
  
And so on...  
Obs.: The program should print a blank line after each test case, even after the last test case.

| Input Sample | Output Sample |
| --- | --- |
| 2 12 9 0 1 1 5 5 6 0 4 4 2 2 3 7 8 1 7 10 11 11 8 0 1 1 2 3 4 4 3 5 6 6 8 7 9 9 10 | Caso 1:   0-1 pathR(G,1)     1-5 pathR(G,5)       5-6 pathR(G,6)     1-7 pathR(G,7)       7-8 pathR(G,8)   0-4 pathR(G,4)     4-2 pathR(G,2)       2-3 pathR(G,3)    10-11 pathR(G,11)  Caso 2:   0-1 pathR(G,1)     1-2 pathR(G,2)    3-4 pathR(G,4)     4-3    5-6 pathR(G,6)     6-8 pathR(G,8)    7-9 pathR(G,9)     9-10 pathR(G,10) |

URI Online Judge Solution 1081 || DFSr - Depth Hierarchy solution in C++

#include <cstdio>

#include <cstring>

#include <iostream>

using namespace std;

#define MAX 20

#define sc(a) scanf("%d", &a);

#define sc2(a, b) scanf("%d%d", &a, &b);

bool disc[MAX];

int graph[MAX][MAX];

void clean(int v) {

    int i, j;

    for (i = 0; i < v; i++) {

        for (j = 0; j < v; j++)

            graph[i][j] = 0;

        disc[i] = false;

    }

}

bool dfs(int v, int n, int s) {

    int i;

    bool path = false;

    disc[v] = true;

    for (i = 0; i < n; i++) {

        if (graph[v][i] == 1) {

            path = true;

            if (!disc[i]) {

                cout << string(s, ' ');

                printf("%d-%d pathR(G,%d)\n", v, i, i);

                dfs(i, n, s + 2);

            } else {

                cout << string(s, ' ');

                printf("%d-%d\n", v, i);

            }

        }

    }

    return path;

}

void dfs\_runner(int v) {

    int i, ind = 0;

    while (1) {

        if (dfs(ind, v, 2))

            puts("");

        ind = -1;

        for (i = 0; i < v; i++) {

            if (!disc[i]) {

                ind = i;

                break;

            }

        }

        if (ind == -1)

            break;

    }

}

int main(int argc, char const \*argv[]) {

    int n, v, e, o, d, c = 1;

    sc(n);

    while(n--) {

        sc2(v, e);

        clean(v);

        while(e--) {

            sc2(o, d);

            graph[o][d] = 1;

        }

        printf("Caso %d:\n", c++);

        dfs\_runner(v);

    }

    return 0;

}

URI Online Judge Solutoin | 1029 Fibonacci, How Many Calls?

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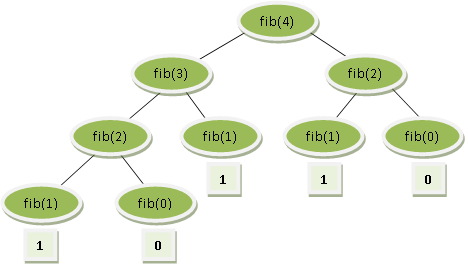
Fibonacci, How Many Calls?

By Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 1**

Sometimes when you are a Computer Science student, you’ll see an exercise or a problem involving the Fibonacci sequence. This sequence has the first two values 0 (zero) and 1 (one) and each next value will always be the sum of the two preceding numbers. By definition, the formula to find any Fibonacci number is:  
fib(0) = 0  
fib(1) = 1  
fib(n) = fib(n-1) + fib(n-2);

One way of finding Fibonacci numbers is by recursive calls. This is illustrated below, presenting the tree of derivation when we calculate fib(4), i.e. the fifth value of this sequence:



In this way,

* fib(4) = 1+0+1+1+0 = 3
* 8 recursive calls were done.

Input

The first input line contains a single integer **N**, indicating the number of test cases. Each test case contains an integer number **X** (1 ≤ **X** ≤ 39) .

Output

For each test case we will have an output line, in the following format: fib(n) = **num\_calls** calls = **result**, where num\_calls is the number of recursive calls, always with a space before and after the equal sign, as shown below.

| Input Sample | Output Sample |
| --- | --- |
| 2 5 4 | fib(5) = 14 calls = 5 fib(4) = 8 calls = 3 |

URI Online Judge Solutoin | 1029 Fibonacci, How Many Calls? in C language

#include <stdio.h>

int counter, call;

int fib(int n)

{

    if(n == 0){

            call++;

            return 0;

    }else if(n == 1){

            call++;

            counter++;

            return 1;

    }else{

            call++;

            return fib(n - 1) + fib(n - 2);//call recursively

    }

}

int main()

{

    int n, i, x, res;

    scanf("%d", &n);

    for (i = 0; i < n; ++i)

    {

        counter = 0;

        call = 0;

        scanf("%d", &x);

        res = fib(x);

        printf("fib(%d) = %d calls = %d\n", x, call - 1, counter);

    }

        return 0;

}