



**Daffodil**  
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**University**

### **LAB REPORT**

Course Code: 114

Course Title: Programming and Problem Solving Lab

Experiment No: Week-1

Experiment Name: 1001, 1002, 1004, 2747

#### **Submitted To:**

Name: Musfiqur Rahman

Department: CSE

Daffodil International University.

#### **Submitted By:**

Name: IShtyq Ahmed Abdellah

ID: 241-15-918

Section: K

Semester: 1st

Department: CSE

Daffodil International University.

**Submission Date:** 12-03-24

### Beecrowd - 1001

```
#include <stdio.h>
main () {
    int A, B, X;
    scanf ("%d %d", &A, &B);
    X = A + B;
    printf ("X = %d\n", X);
}
```

Samples Input:

$\frac{10}{9}$

Samples Output:

X = 19

### Beecrowd - 1002

```
#include <stdio.h>
main() {
    double R;
    scanf ("%lf", &R);
    printf ("A=%lf\n", (3.14159 * (R * R)));
}
```

Samples Input:

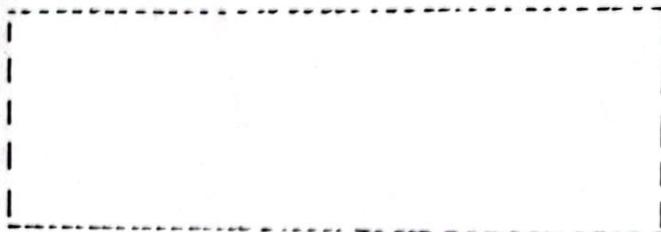
2.00

Samples Output:

A=12.5664

Input sample:

Output sample:



### BeeCrowd - 1003

```
#include <stdio.h>
main() {
    int A, B, SOMA;
    scanf("%d %d", &A, &B);
    SOMA = A + B;
    printf("SOMA = %d \n", SOMA);
}
```

Input Samples:

30

10

Output samples:

SOMA = 40

### BeeCrowd - 2747

```
#include <stdio.h>
main() {
    printf("-----\n");
    printf("1\n");
    printf("1\n");
    printf("1\n");
    printf("1\n");
    printf("1\n");
    printf("1\n");
    printf("1\n");
}
```

}



# Daffodil International University

## LAB REPORT

Course Code: 114

Course Title: Programming and Problem Solving Lab

Experiment No: Week - 02

Experiment Name: 1005, 1007, 1013, 1019

### Submitted To:

Name: Mushfiqur Rahman

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### Submitted By:

Name: Ishfaq Ahmed Abdullah

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Section: K

Semester: 1st

Department: CSE

Daffodil International University.

Submission Date: 12-03-24

### Beecrowd - 1013

```
#include <stdio.h>
main(){
    int a,b,c,s,x,y;
    scanf("%d %d %d %d", &a, &b, &c);
    y = (a+b*c)*(a-b);
    x = a+b+y;
    s = x/2;
    printf("%d eh o maior\n", s);
}
```

Input samples:  
7 14 106

Outputs samples:  
106 eh o maior

### Beecrowd - 1019

```
#include <stdio.h>
main(){
    int a, a1, b, b1, c, N;
    scanf("%d", &N);
    a = N/3600;
    a1 = N%3600;
    b = a1/60;
    b1 = a1%60;
    c = b1;
    printf("%d: %d : %d\n", a, b, c);
```

Input samples:  
356

Output samples:  
0:9:16

### Beecrowd - 1005

```
#include <stdio.h>
main(){
    double a,b,s;
    scanf("%lf %lf", &a, &b);
    s = (a*3.5 + b*7.5) / (3.5 + 7.5);
    printf("MEDIA = %.5lf \n", s);
}
```

Input samples:

5.0  
7.1

Output samples:

MEDIA = 6.43182

### Beecrowd - 1007

```
#include <stdio.h>
main(){
    int a,b,c,d;
    scanf("%d %d %d %d", &a, &b, &c, &d);
    printf("DIFERENCA = %d \n", (a*b)-(c*d));
}
```

Input samples:

5  
6  
7  
8

Output samples:

DIFERENCA = -26

## Baccauld - 1021

```
#include <stdio.h>
main () {
    float a, b;
    int N, x, m;
    scanf ("%f", &a);
    N = (int) a;
    b = a - N;
    printf ("NOTAS: \n");
    printf ("%d nota(s) de R$ 100.00", N/100);
    N = N%100;
    printf ("%d nota(s) de R$ 50.00", N/50);
    N = N%50;
    printf ("%d nota(s) de R$ 20.00", N/20);
    N = N%20;
    printf ("%d nota(s) de R$ 10.00", N/10);
    N = N%10;
    printf ("%d nota(s) R$ 5.00", N/5);
    N = N%5;
    printf ("%d nota(s) R$ 2.00", N/2);
    N = N%2;
    printf ("MOEDAS: \n");
    printf ("%d moeda(s) de R$ 1.00\n", N);
    m = round (b*100);
    printf ("%d moeda(s) de R$ 0.50\n", m);
    m = m%50;
```

```
printf("%d moeda(s) de R$ 0.25\n", m/25);
m= m%25;
printf("%d moeda(s) de R$ 0.10\n", m/10);
m= m%10;
printf("%d moeda(s) de R$ 0.05\n", m/5);
m= m%5;
printf("%d moeda(s) de R$ 0.01\n", m/1);
}
```

Inputs examples: Output example:

576.73

NOTA:

5 nota(s) de R\$ 100.00  
1 nota (s) de R\$ 50.00  
1 nota (s) de R\$ 20.00  
1 nota (s) de R\$ 10.00  
1 nota (s) de R\$ 5.00  
1 nota (s) de R\$ = 2.00

MOEDA:

1 moeda (s) de R\$ 1.00  
1 moeda (s) de R\$ 0.50  
1 moeda (s) de R\$ 0.25  
2 moeda(s) de R\$ 0.10  
2 moeda(s) de R\$ 0.05  
3 moeda (s) de R\$ 0.01



# Daffodil International University

## LAB REPORT

Course Code: 114

Course Title: Programming and Problem Solving Lab

Experiment No: Week -02

Experiment Name: Basic if/else and nested if/else  
1027, 1037, 2342, 2313  
codeforce - 950A

### Submitted To:

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### Submitted By:

Name: Ishfaq Ahmed Abdullah

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Section: K

Semester: 1st

Department: CSE

Daffodil International University.

Submission Date: 12-03-24

```

scanf("%d", &R);
scanf("%d %c %d", &p, &R, &Q);
if (R == (+)) {
    if (p+Q <= N)
        printf("OK\n");
    } else
        printf("OVERFLOW\n");
else {
    if (p+Q <= a)
        printf("OK\n");
    else
        printf("OVERFLOW\n");
}

```

Input samples:

10  
5 + 5

Output samples:

OK

BeeCrowd - 2313

```

#include <stdio.h>
#include <math.h>
main() {
    int a, b, c;
    int ans = 0;
    scanf("%d %d %d", &a, &b, &c);

```

```

if((a+b>c & & b+c>a) & & a+c>b){
    if(a==b && a!=c) || (c==b && a!=c) || (a==c && b!=c)
        printf("Valido - Isosceles\n");
    else if(a==b && b==c)
        printf("Valido - Equilatero\n");
    else
        printf("Valido - Escaleno\n");
}
else
    printf("Invalido\n");

if(ans == 5){
    if(pow(a,2) == (pow(b,2) + pow(c,2)) || pow(b,2) == (pow(a,2) + pow(c,2))
       || pow(c,2) == pow(b,2) + pow(a,2))
        printf("Retangulo: S\n");
    else
        printf("Retangulo: N\n");
}

```

Input samples:

4 6 2

Output samples:

Invalido

### Beecrowd - 10187

```
#include <stdio.h>
main() {
    float n;
    scanf("%f", &n);
    if (0 >= n || 100 < n)
        printf("Fora de intervalo \n");
    if (n >= 25 && n <= 50)
        printf("Intervalo [25,50] \n");
    if (n >= 0 && n <= 25)
        printf("Intervalo [0,25] \n");
    if (n >= 75 && n <= 100)
        printf("Intervalo [75,100] \n");
}
```

Input samples:

25.01

Output samples:

Intervalo [25,50]

### Beecrowd - 2342

```
#include <stdio.h>
main() {
    int N;
    float P, Q;
    char R;
```



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### **LAB REPORT**

Course Code: 114

Course Title: Programming and Problem Solving Lab

Experiment No: Week - 04

Experiment Name: Switch case , for loop and Nested loop  
1050, 1052, 2766, 1067, 1071

#### **Submitted To:**

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**Submission Date:** 12-08-24

Codeforces - 959A

```
# include < bits/gtde++ .h>
using namespace std;
int main(){
    int n
    cin>>n;
    if(n&1) cout<<"Ehab";
    else cout<<"Mahmoud";
}
```

sample Input:

1

2

sample output:

Ehab

Mahmoud

```

case 27: {
    printf("Vitoria\n");
    break;
}

case 31: {
    printf("Belo Horizonte\n");
    break;
}

default:
    printf("DDD nao cadastrado\n");
}

```

Input samples:

11

Output samples:

Sao Paulo

### Beecrowd - 1052

```

#include <stdio.h>
main() {
    int n;
    scanf("%d", &n);
    switch(n) {
        case 1: {
            printf("January\n");
            break;
        }
    }
}

```

case 2: {  
    printf("February \n");  
    break;  
}

case 3: {  
    printf("March\n");  
    break;  
}

case 4: {  
    printf("April\n");  
    break;  
}

case 5: {  
    printf("May\n");  
    break;  
}

case 6: {  
    printf("June\n");  
    break;  
}

case 7: {  
    printf("July\n");  
    break;  
}

case 8: {  
    printf("August\n");  
    break;  
}

case 2: {  
    printf("February \n");  
    break;  
}

case 3: {  
    printf("March\n");  
    break;  
}

case 4: {  
    printf("April\n");  
    break;  
}

case 5: {  
    printf("May\n");  
    break;  
}

case 6: {  
    printf("June\n");  
    break;  
}

case 7: {  
    printf("July\n");  
    break;  
}

case 8: {  
    printf("August\n");  
    break;  
}

## Bernard - 1050

```
#include <stdio.h>
main(){
    int n;
    scanf("%d", &n);
    switch(n){
        case 61:{ printf("Brasilia\n");
                    break;
                }
        case 71:{ printf("Salvador\n");
                    break;
                }
        case 11:{ printf("Sao Paulo\n");
                    break;
                }
        case 21:{ printf("Rio de Janeiro\n");
                    break;
                }
        case 32:{ printf("Juiz de Fora\n");
                    break;
                }
        case 19:{ printf("Campinas\n");
                    break;
                }
    }
}
```

```

if(i==3)
    printf("%s\n", a);
if(i==7)
    printf("%s\n", a);
if(i==9)
    printf("%s\n", a);
}
}

```

Input samples:

USP  
UFP E  
UFC G

Output samples:

UF G

Beercowd - 1067

```

#include <stdio.h>
main(){
    int n;
    scanf("%d", &n);
    for(int i=1; i<=n; i++){
        if(i%2==0)
            printf("%d\n", i);
    }
}

```

Sample Input:

8

Sample output:

1  
3  
5  
7

```

case 9:{  

    printf("September\n");  

    break;  

}  

case 10:{  

    printf("November\n");  

    break;  

}  

case 11:{  

    printf("October\n");  

    break;  

}  

case 12:{  

    printf("December\n");  

    break;  

}
}

```

Input samples:

4

Output samples:

April

BeeCrowd - 2766

```

#include <stdio.h>
main()
{
    int i;
    char a[100];
    for(i=1; i<=10; ++i)
        scanf("%s", &a);
}

```



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### **LAB REPORT**

Course Code: 114

Course Title: Programming and Problem Solving Lab

Experiment No: week -05

Experiment Name: 1074, 2060, 1116, 1075, 1102

#### **Submitted To:**

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Section: K

Semester: 1st

Department: CSE

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**Submission Date:** 12 - 03 - 24

### BeeCrowd - 1074

```
#include <stdio.h>
main() {
    int n;
    scanf("%d", &n);
    int a[n];
    for(int i=1; i<=n; i++)
        scanf("%d", &a[i]);
    for(int i=1; i<=n; i++) {
        if(a[i] ==)
            printf("NULL\n");
        else if(a[i] > 0 && a[i] % 2 == 0)
            printf("EVEN POSITIVE\n");
        else if(a[i] < 0 && a[i] % 2 == 0)
            printf("EVEN NEGATIVE");
        else if(a[i] > 0 && a[i] % 2 != 0)
            printf("ODD POSITIVE\n");
        else if(a[i] < 0 && a[i] % 2 != 0)
            printf("ODD NEGATIVE\n");
    }
}
```

Input examples:

4  
0  
-3

Output samples:

EVEN POSITIVE  
NULL  
ODD NEGATIVE

### Beecrowd - 1071

```
#include <stdio.h>
main(){
    int a, b, sum=0;
    scanf("%d %d", &a, &b);
    for(int i=1; i<=(a>b?a:b); i++){
        if(i%2!=0)
            sum+=i;
    }
    printf("%d\n", sum);
}
```

Sample Input:

6  
-5

Samples Output:

5

BeeCrowd - 1116

```
#include <stdio.h>
main() {
    int x, y, n;
    double t;
    scanf("%d", &n);
    for(int i=1; i<=n; i++) {
        scanf("%d %d", &x, &y);
        if(y==0)
            printf("divisao impossivel\n");
        else
            t = x/(y*1.00);
        printf("%.1f\n", t);
    }
}
```

Input samples:

```
3
3 -2
-8 0
0 8
```

Output samples:

```
-1.5
divisao impossivel
0.0
```

BeeCrowd - 1075

```
#include <stdio.h>
main() {
    int n;
    scanf("%d", &n);
    for(int i=1; i<=100; i++)
```

```
if(i % n == 2)
    printf("%d\n", i);
}
```

}

Input sample:

13

Output samples:

2  
15  
28  
41  
....

BeeCrowd - 1132

```
#include <stdio.h>
main() {
    int a, b, sum=0;
    scanf("%d %d", &a, &b);
    for(int i=1; i <= (a>b? a:b); i++) {
        if(i % 13 != 0)
            sum += i;
    }
    printf("%d\n", sum);
}
```

Input samples:

100

200

Output samples:

13954

### Beecrowd - 2060

```
#include <stdio.h>
main(){
    int a,n;
    int c2,c3=0, c4=0, c5=0;
    scanf("%d", &n);
    for(int i=1; i<=n; i++){
        scanf("%d", &a);
        if(a%2==0)
            c2++;
        if(a%3==0)
            c3++;
        if(a%4==0)
            c4++;
        if(a%5==0)
            c5++;
    }
    printf("%d Multiplos de 2\n", c2);
    printf("%d Multiplos de 3\n", c3);
    printf("%d Multiplos de 4\n", c4);
    printf("%d Multiplos de 5\n", c5);
}
```

Sample Input:

3

2 5 4

Output Samples:

2 Multiplos de 2  
0 Multiplos de 3  
1 Multiplos de 4  
0 Multiplos de 5

### Beeecrowd - 1080

```
#include <stdio.h>
main() {
    int p, c = 0;
    int n[100];
    for (int i = 1; i <= 100; i++) {
        scanf("%d", &n[i]);
        if (n[i] > c) {
            c = n[i];
            p = i;
        }
    }
    printf("%d\n", c);
    printf("%d\n", p);
}
```

Input samples:

2  
1 13  
453986  
6  
7  
8

Output samples:

453986  
3

### Beeecrowd - 1101

```
#include <stdio.h>
int main() {
    int n;
    int x, y, aux;
    int soma;
```

```

while(1) {
    scanf("%d%d", &x, &y);
    if (x <= 0) break;
    if (y <= 0) break;
    if (x > y) {
        aux = x;
        x = y;
        y = aux;
    }
    soma = 0;
    for (int i=x; i<=y; i++) {
        printf("%d", i);
        soma += i;
    }
    printf("Sum = %d\n", soma);
}

```

Input samples:

5 2

Output samples:

2 3 4 5 Sum = 14

### Beeercraft - 1097

```

#include <stdio.h>
main() {
    int I, J;
    for (I=1; I<=9; I=I+2) {
        for (J=6+I; J>3+I; J=-)
            printf("I=%d J=%d\n", I, J);
    }
}

```

```

while(1) {
    scanf("%d%d", &x, &y);
    if (x <= 0) break;
    if (y <= 0) break;
    if (x > y) {
        aux = x;
        x = y;
        y = aux;
    }
    soma = 0;
    for (int i=x; i<=y; i++) {
        printf("%d", i);
        soma += i;
    }
    printf("Sum = %d\n", soma);
}

```

Input samples:

5 2

Output samples:

2 3 4 5 Sum = 14

### Beeercraft - 1097

```

#include <stdio.h>
main() {
    int I, J;
    for (I=1; I<=9; I=I+2) {
        for (J=6+I; J>3+I; J=-)
            printf("I=%d J=%d\n", I, J);
    }
}

```



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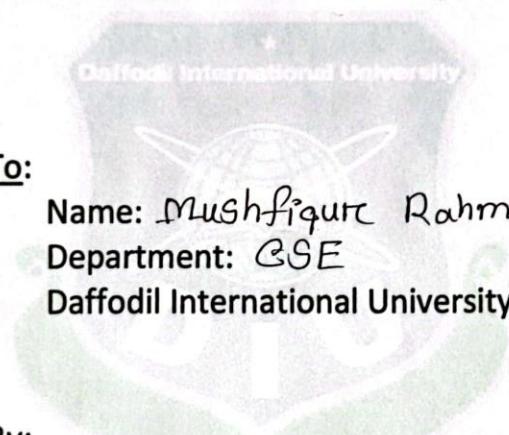
### **LAB REPORT**

Course Code: 114

Course Title: Programming and Problem Solving Lab

Experiment No: week - 06

Experiment Name: 1080, 1101, 1097, 1134



#### **Submitted To:**

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Section: K

Semester: 1st

Department: CSE

Daffodil International University.

**Submission Date:** 12-08-24

```
printf("MUITO OBRIGADO\n");
printf("Alcool: %d\n", x);
printf("Gasolina: %d\n", y);
printf("Diesel: %d\n", z);
```

3

Input samples:

8  
1  
7  
2  
2  
4

Output sample

MUITO OBRIGADO  
Alcool: 1  
Gasolina: 2  
Diesel: 0

Input samples:

Output & samples:

I = 1 J = 7

I = 1 J = 6

I = 1 J = 5

I = 3 J = 9

I = 3 J = 8

I = 3 J = 7

.....

I = 9 J = 15

I = 9 J = 14

I = 9 J = 13

Barcode - 1134

```
#include <stdio.h>
main()
{
    int a, x=0, y=0, z=0;
    while(1)
    {
        scanf("%d", &a);
        if(a==4)
            break;
        else
            if(a==1) x++;
            else if(a==2) y++;
            else if(a==3) z++;
            else continue;
    }
}
```