

Operators and Expressions, Managing Input and Output Operations

Ex.No.:**Date:****HeightUnits****ProblemStatement:**

Many people think about their height in feet and inches, even in some countries that primarily use the metric system. Write a program that reads a number of feet from the user, followed by a number of inches. Once these values are read, your program should compute and display the equivalent number of centimeters.

Hint: One foot is 12 inches. One inch is 2.54 centimeters.

InputFormat

First line, read the number of feet.

Second line, read the number of inches.

Output Format

In one line print the height in centimeters.

Note: All of the values should be displayed using two decimal places.

SampleInput1

5

6

SampleOutput1

167.64

Program:

```

1  #include<stdio.h>
2  int main()
3  {   float a;
4      float b;
5      scanf("%f %f",&a,&b);
6      a=a*12*2.54;
7      b=b*2.54;
8      printf("%.2f",a+b);
9      return 0;
10 }
```

	Input	Expected	Got	
✓	5	167.64	167.64	✓
	6			

Passed all tests! ✓

Ex.No.:**Date:****Arithmetic****ProblemStatement:**

Create a program that reads two integers, a and b, from the user. Your program should compute and display:

- The sum of a and b
- The difference when b is subtracted from a
- The product of a and b
- The quotient when a is divided by b
- The remainder when a is divided by b

InputFormat

First line, read the first number.

Second line, read the second number.

OutputFormat

First line, print the sum of a and b

Second line, print the difference when b is subtracted from a

Third line, print the product of a and b

Fourth line, print the quotient when a is divided by b

Fifth line, print the remainder when a is divided by b

SampleInput1

100

6

SampleOutput1

106

94

600

16

4

Program:

```

1  #include<stdio.h>
2  int main()
3  {
4      int a,b;
5      scanf("%d %d",&a,&b);
6      printf("%d\n",a+b);
7      printf("%d\n",a-b);
8      printf("%d\n",a*b);
9      printf("%d\n",a/b);
10     printf("%d",a%b);
11     return 0;
12 }

```

	Input	Expected	Got	
✓	100 6	106 94 600 16 4	106 94 600 16 4	✓

Passed all tests! ✓

Ex.No.:**Date:****DayOldBread****ProblemStatement:**

A bakery sells loaves of bread for \$3.49 each. Day old bread is discounted by 60 percent. Write a program that begins by reading the number of loaves of day-old bread being purchased from the user. Then your program should display the regular price for the bread, the discount because it is a day old, and the total price. Each of these amounts should be displayed on its own line with an appropriate label. All of the values should be displayed using two decimal places.

InputFormat

Read the number of day old loaves.

OutputFormat

First line, print Regular price: price Second line, print Discount: discount Third line, print Total: total

Note: All of the values should be displayed using two decimal places.

SampleInput1

10

SampleOutput1

Regular price: 34.90 Discount: 20.94 Total: 13.96

Program:

```

1  #include<stdio.h>
2  int main()
3  {
4      float n;
5      scanf("%f",&n);
6      printf("Regular price: %.2f\n",n*3.4
7      printf("Discount: %.2f\n",(n*3.49*60
8      printf("Total: %.2f",(n*3.49-n*3.49*
9      return 0;
10 }
```

	Input	Expected	Got
✓	10	Regular price: 34.90 Discount: 20.94 Total: 13.96	Regular price: 3 Discount: 20.94 Total: 13.96

Passed all tests! ✓

Ex.No.:**Date:****GokiandhisBreakup****ProblemStatement:**

Gokirecentlyhadabreakup,sohewantstohavesomemorefriendsinhislife.Gokihas N people who he can be friends with, so he decides to choose among them according to their skills set $Y_i (1 \leq i \leq n)$. He wants at least X skills in his friends. Help Goki find his friends.

InputFormat

First line contains a single integer X - denoting the minimum skill required to be Goki's friend. Next line contains one integer Y - denoting the skill of the person.

OutputFormat

Print if he can be friend with Goki. **'YES' (without quotes)** if he can be friends with Goki else **'NO' (without quotes)**.

Constraints

$1 \leq N \leq 1000000$ $1 \leq X, Y \leq 1000000$

SAMPLEINPUT1

100

110

SAMPLEOUTPUT1

YES

Program:

```

1  #include<stdio.h>
2  int main()
3  {
4      int x,y;
5      scanf("%d %d",&x,&y);
6
7      if(y>=x)
8          printf("YES");
9      else
10         printf("NO");
11 }

```

	Input	Expected	Got	
✓	100 110	YES	YES	✓
✓	100 90	NO	NO	✓

Passed all tests! ✓

Ex.No.:**Date:****SaynoHandshakes!!!****ProblemStatement:**

Before the outbreak of corona virus to the world, a meeting happened in a room in Wuhan. A person who attended that meeting had COVID-19 and no one in the room knew about it! So, everyone started shaking hands with everyone else in the room as a gesture of respect and after meeting unfortunately everyone got infected! Given the fact that any two persons shake hand exactly once, can you tell the total count of handshakes happened in that meeting?

Saynotoshakehands.Regularlywashyourhands.StaySafe.

InputFormat

ReadanintegerN,thetotalnumberofpeopleattendedthatmeeting.

OutputFormat

Printthenumberofhandshakes.

Constraints

$0 < N < 106$

SAMPLEINPUT1

1

SAMPLEOUTPUT

0

Program:

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,b;
5     scanf("%d",&n);
6     b=n*(n-1)/2;
7     printf("%d",b);
8
9 }
```

	Input	Expected	Got	
✓	1	0	0	✓
✓	2	1	1	✓

Passed all tests! ✓

Ex.No.:**Date:****BacktoSchool****ProblemStatement:**

Inourschooldays,allofushaveenjoyedtheGamesperiod.Raghavlovestoplaycricket andisCaptainofhisteam.Healwayswantedtowinallcricketmatches.Butonlyonelast Gamesperiodisleftinschoolnow.Afterthatthewillpassoutfromschool.

So, this match is very important to him. He does not want to lose it. So he has done a lot of planning to make sure his teams wins. He is worried about only one opponent - Jatin, whois very good batsman.

Raghav has figured out 3 types of bowling techniques, that could be most beneficial for dismissing Jatin. He has given points to each of the 3 techniques.

You need to tell him which is the maximum point value, so that Raghav can select best technique.

3numbersaregivenininput.Outputthetmaximumofthesenumbers.

InputFormat:

Threespaceseparatedintegers.

OutputFormat:

Maximumintegervalue

SAMPLEINPUT

861

SAMPLEOUTPUT

8

Program:

```

1  #include<stdio.h>
2  int main()
3  {
4      int a,b,c;
5      scanf("%d %d %d",&a,&b,&c);
6      if(a>b&&a>c)
7          printf("%d",a);
8      else if(b>a&&b>c)
9          printf("%d",b);
10     else
11         printf("%d",c);
12 }

```

	Input	Expected	Got	
✓	81 26 15	81	81	✓

Passed all tests! ✓