

WEEK 2

QUESTION 1:

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.

Input Format First line, read the number of feet. Second line, read the number of inches.

Output Format In one line print the height in centimeters.

Sample Input

1 5 6

Sample Output

1 167.64

PROGRAM:

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 25 October 2024, 2:26 PM
Duration	59 days 3 hours

REC-CIS

DEEPTHIKA V 2024-CSBS D2

Week-02-01-Practice Session-Coding Attempt review | REC-CIS - Personal - Microsoft Edge

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Sample Output 1

167.64

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main() {
3     int feet,inches;
4     float centimeters;
5     scanf("%d",&feet);
6     scanf("%d",&inches);
7     //convert feet and inches to centimeters
8     centimeters=(feet*12+inches)*2.54;
9     //Display the result in centimeters with two decimal places
10    printf("%.2f\n",centimeters);
11    return 0;
12 }
```

OUTPUT:

	Input	Expected	Got	
✓	5 6	167.64	167.64	✓

QUESTION 2:

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

Input Format First line, read the first number. Second line, read the second number.

Output Format 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

Sample Input

1 100 6

Sample Output

106 94 600 16 4

PROGRAM:

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The screenshot shows a web-based IDE window titled 'REC-CIS'. The browser address bar shows 'www.cplusplus.com/doc/quickstart/'. The IDE interface includes a 'Sample Input' section with the text '1 100 6' and a 'Sample Output' section with the text '106 94 600 16 4'. Below these, the C++ source code is displayed in a light blue editor. The code includes `<stdio.h>` and defines a `main` function that reads three integers `a`, `b`, and `c` using `scanf`. It then calculates and prints the sum (`s=a+b`), difference (`d=a-b`), product (`p=a*b`), quotient (`q=a/b`), and remainder (`r=a%b`) using `printf`. The code ends with `return 0;`.

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b,s,d,p,q,r;
5     scanf("%d",&a);
6     scanf("%d",&b);
7     s=a+b;
8     d=a-b;
9     p=a*b;
10    q=a/b;
11    r=a%b;
12    printf("%d\n%d\n%d\n%d\n",s,d,p,q,r);
13 }
```

OUTPUT:

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

Passed all tests! ✓

QUESTION 3:

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.

Input Format Read the number of day old loaves.

Output Format 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.

Sample Input

1 10

Sample Output

1

Regular price: 34.90

Discount: 20.94

Total: 13.96

PROGRAM:

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Started	Monday, 23 December 2024, 5:33 PM
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Duration	59 days 3 hours

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Discount: 20.94
Total: 13.96

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 { int loaves;
4   float regularprice = 3.49;
5   float discountrate = 0.60;
6   float regulartotal,discountamount,total;
7   scanf("%d",&loaves);
8   regulartotal=loaves*regularprice;
9   discountamount=regulartotal*discountrate;
10  total=regulartotal-discountamount;
11  printf("Regular price: %.2f\n",regulartotal);
12  printf("Discount: %.2f\n",discountamount);
13  printf("Total: %.2f\n",total);
14  return 0;
15 }
```

OUTPUT:

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

QUESTION 4:

Goki recently had a breakup, so he wants to have some more friends in his life. Goki has 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 atleast X skills in his friends. Help Goki find his friends.

INPUT 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 .

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

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

SAMPLE INPUT

1 100 110

SAMPLE OUTPUT 1

YES

SAMPLE INPUT 2

100 90

SAMPLE OUTPUT 2

NO

PROGRAM:

Attempt 1	
Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 4 November 2024, 11:17 AM
Duration	49 days 6 hours

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Week-02-02-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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NO

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int X,Y;
4     scanf("%d",&X);
5     scanf("%d",&Y);
6     if(Y>=X){
7         printf("YES\n");
8     }else{
9         printf("NO\n");
10    }
11    return 0;
12 }
```

OUTPUT:

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

QUESTION 5:

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? Say no to shakehands. Regularly wash your hands. Stay Safe.

Input Format Read an integer N,the total number of people attended that meeting.

Output Format Print the number of handshakes. Constraints $0 < N < 106$

SAMPLE INPUT 1

1

SAMPLE OUTPUT

0

SAMPLE INPUT 2

2

SAMPLE OUTPUT 2

1

PROGRAM:

Attempt 1	
Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 4 November 2024, 11:17 AM
Duration	49 days 6 hours

REC-CIS

DEEPTHIKA V 2024-CSBS D2

Week 02-02-Practice Session-Coding Attempt 1 REC-CIS - Personal - Microsoft Edge

Not secure www.cplusplus.com/en <https://www.cplusplus.com/en/attempts/422718/index-1/>

REC-CIS

SAMPLE OUTPUT 2

1

Explanation Case 1: The lonely board member shakes no hands, hence 0. Case 2: There are 2 board members, 1 handshake takes place.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int N;
4     scanf("%d",&N);
5     int handshakes = (N*(N-1))/2;
6     printf("%d\n",handshakes);
7     return 0;
8 }
```

OUTPUT:

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

QUESTION 6:

In our school days, all of us have enjoyed the Games period. Raghav loves to play cricket and is Captain of his team. He always wanted to win all cricket matches. But only one last Games period is left in school now. After that he will pass out from school. 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, who is 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. 3 numbers are given in input. Output the maximum of these numbers

. Input: Three space separated integers.

Output: Maximum integer value

SAMPLE INPUT 8 6 1

SAMPLE OUTPUT 8

PROGRAM:

Attempt 1	
Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 4 November 2024, 11:17 AM
Duration	49 days 6 hours

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Week-02-03-Practice Session-Coding Attempt review | REC-CIS - Personal - Microsoft Edge

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Explanation Out of given numbers, 8 is maximum.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b,c;
4     scanf("%d %d %d",&a,&b,&c);
5     int max=a;
6     if(b>max){
7         max=b;
8     }
9     if(c>max){
10        max=c;
11    }
12    printf("%d\n",max);
13    return 0;
14 }
```

OUTPUT:

	Input	Expected	Got	
✓	81 26 15	81	81	✓