| | |
|---|---|
| **Status** | Finished |
| **Started** | Monday, 23 December 2024, 5:33 PM |
| **Completed** | Monday, 28 October 2024, 8:50 AM |
| **Duration** | 56 days 8 hours |

Question **1**

Correct

Marked out of 3.00

Flag question

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.

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.

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

Sample Input 1

5 6

Sample Output 1

167.64

**Answer:** (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int feet , inches;
    double total_inches , height_in_cm;
    scanf ("%d%d",&feet,&inches);
    total_inches = (feet*12) + inches;
    height_in_cm = total_inches*2.54;
    printf("%2f\n",height_in_cm);
    return 0;
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 5<br>6 | 167.64 | 167.640000 | ✓ |

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Flag question

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

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

**Answer:** (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a,b;
    scanf ("%d%d", &a,&b);
    printf("%d\n", a+b);
    printf ("%d\n", a-b);
    printf("%d\n", a*b);
    printf ("%d\n", a/b);
    printf ("%d\n", a%b);
    return 0;
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 100<br>6 | 106<br>94<br>600<br>16<br>4 | 106<br>94<br>600<br>16<br>4 | ✓ |

Passed all tests! ✓

Question **3**

Correct

Marked out of 7.00

Flag question

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

**Answer:** (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int loaves;
    float regular_price,discount,total;
    scanf("%d", &loaves);
    regular_price = loaves*3.49;
    discount = regular_price*0.60;
    total = regular_price-discount;
    printf ("Regular price: %.2f\n",regul
    printf ("Discount: %.2f\n",discount);
    printf ("Total: %.2f\n",total);
    return 0;
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 100<br>6 | 106<br>94<br>600<br>16<br>4 | 106<br>94<br>600<br>16<br>4 | ✓ |

Passed all tests! ✓

Question **3**

Correct

Marked out of 7.00

Flag question

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

**Answer:** (penalty regime: 0 %)

```
#include<stdio.h>
int main(){
    int loaves;
    float regular_price,discount,total;
    scanf("%d", &loaves);
    regular_price = loaves*3.49;
    discount = regular_price*0.60;
    total = regular_price-discount;
    printf ("Regular price: %.2f\n",regul
    printf ("Discount: %.2f\n",discount);
    printf ("Total: %.2f\n",total);
    return 0;
}
```

| | Input | Expected | Got |
|---|---|---|---|
| ✓ | 10 | Regular price: 34.90<br>Discount: 20.94<br>Total: 13.96 | Regular price: 3<br>Discount: 20.94<br>Total: 13.96 |

Passed all tests! ✓

Finish review

| | |
|---|---|
| **Status** | Finished |
| **Started** | Monday, 23 December 2024, 5:33 PM |
| **Completed** | Monday, 28 October 2024, 9:27 AM |
| **Duration** | 56 days 8 hours |

Question **1**

Correct

Marked out of 3.00

Flag question

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 Yi(1<=i<=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<=N<=1000000

1<=X,Y<=1000000

SAMPLE INPUT 1

100 110

SAMPLE OUTPUT 1

YES

SAMPLE INPUT 2

100 90

SAMPLE OUTPUT 2

NO

**Answer:** (penalty regime: 0 %)

```
#include<stdio.h>
int main(){
    int x,y;
    scanf("%d",&x);
    scanf ("%d",&y);
    if(y>=x)
    {printf("YES\n");
    }
    else{
    printf("NO\n");
    return 0;
    }
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 100<br>110 | YES | YES | ✓ |
| ✓ | 100<br>90 | NO | NO | ✓ |

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Flag question

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

Question **2**

Correct

Marked out of 5.00

Flag question

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

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 %)

```
#include <stdio.h>
int main(){
    int n ;
    scanf("%d",&n);
    long long handshakes
     =(long long)n*(n-1)/2;
     printf("%lld\n",handshakes);
     return 0;
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 1 | 0 | 0 | ✓ |
| ✓ | 2 | 1 | 1 | ✓ |

Passed all tests! ✓

Question **3**

Correct

Marked out of 7.00

Flag question

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

```c
int main(){
    int n ;
    scanf("%d",&n);
    long long handshakes
     =(long long)n*(n-1)/2;
     printf("%lld\n",handshakes);
     return 0;
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 1 | 0 | 0 | ✓ |
| ✓ | 2 | 1 | 1 | ✓ |

Passed all tests! ✓

Question **3**

Correct

Marked out of 7.00

Flag question

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

Explanation Out of given numbers, 8 is maximum.

**Answer:** (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int a,b,c;
    scanf ("%d%d%d",&a,&b,&c);
    int max;
    if(a>b&&a>=c)
    {
        max=a;
    }
    else if (b>c&&b>=c)
    {
        max=b;
    }
    else {
        max=c;

    }
    printf ("%d",max);
    return 0;
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 81 26 15 | 81 | 81 | ✓ |

Passed all tests! ✓

Finish review

| | |
|---|---|
| **Status** | Finished |
| **Started** | Monday, 23 December 2024, 5:33 PM |
| **Completed** | Tuesday, 29 October 2024, 9:32 AM |
| **Duration** | 55 days 8 hours |

Question **1**

Correct

Marked out of 3.00

Flag question

Write a program to read two integer values and print true if both the numbers end with the same digit, otherwise print false. Example: If 698 and 768 are given, program should print true as they both end with 8. Sample Input 1 25 53 Sample Output 1 false Sample Input 2 27 77 Sample Output 2 true

**Answer:** (penalty regime: 0 %)

```
#include<stdio.h>
int main (){
    int num1,num2;
    scanf ("%d" , &num1);
    scanf ("%d", &num2);
    if (num1%10 == num2%10){
        printf ("true\n");
    }
    else
    {
        printf ("false");
    }

}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 25 53 | false | false | ✓ |
| ✓ | 27 77 | true | true | ✓ |

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Flag question

**Objective**

In this challenge, we're getting started with conditional statements.

**Task**

Given an integer, ***n***, perform the following conditional actions:

- If ***n*** is odd, print Weird
- If ***n*** is even and in the inclusive range of ***2*** to ***5***, print ***Not Weird***
- If ***n*** is even and in the inclusive range of ***6*** to ***20***, print ***Weird***
- If ***n*** is even and greater than ***20***, print ***Not Weird***

Complete the stub code provided in your editor to print whether or not ***n*** is weird.

**Input Format**

A single line containing a positive integer, ***n***.

**Constraints**

- $1 < n < 100$

**Output Format**

Print Weird if the number is weird; otherwise, print Not Weird.

**Sample Input 0**

3

**Sample Output 0**

Weird

**Sample Input 1**

24

**Sample Output 1**

Not Weird

**Explanation**

*Sample Case 0:* ***n = 3***

***n*** is odd and odd numbers are weird, so we print ***Weird***.

*Sample Case 1:* ***n = 24***

***n > 20*** and ***n*** is even, so it isn't weird. Thus, we print ***Not Weird***.

**Answer:** (penalty regime: 0 %)

```
#include<stdio.h>
int main (){
int n;
scanf("%d",&n);
if (n%2!=0){
    printf ("Weird");}
    else {
        printf ("Not Weird");
    }
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 3 | Weird | Weird | ✓ |
| ✓ | 24 | Not Weird | Not Weird | ✓ |

Passed all tests! ✓

Question **3**

Correct

Marked out of 7.00

Flag question

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third. For example, 3, 5 and 4 form a Pythagorean triple, since 3*3 + 4*4 = 25 = 5*5 You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters. Sample Input 1 3 5 4 Sample Output 1 yes Sample Input 2 5 8 2 Sample Output 2 no

**Answer:** (penalty regime: 0 %)

```
#include <stdio.h>
int main () {
  int a,b,c;
  scanf ("%d %d %d",&a, &b,&c);
  if (a*a+b*b==c*c || b*b +c*c == a*a ||
      printf ("yes");
  }
```

```c
#include<stdio.h>
int main (){
int n;
scanf("%d",&n);
if (n%2!=0){
    printf ("Weird");}
    else {
        printf ("Not Weird");
    }
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 3 | Weird | Weird | ✓ |
| ✓ | 24 | Not Weird | Not Weird | ✓ |

Passed all tests! ✓

Question **3**

Correct

Marked out of 7.00

Flag question

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third. For example, 3, 5 and 4 form a Pythagorean triple, since 3*3 + 4*4 = 25 = 5*5 You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters. Sample Input 1 3 5 4 Sample Output 1 yes Sample Input 2 5 8 2 Sample Output 2 no

**Answer:** (penalty regime: 0 %)

```c
#include <stdio.h>
int main () {
  int a,b,c;
  scanf ("%d %d %d",&a, &b,&c);
  if (a*a+b*b==c*c || b*b +c*c == a*a ||
     printf ("yes");
  }
   else {
      printf ("no");
   }
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 3<br>5<br>4 | yes | yes | ✓ |
| ✓ | 5<br>8<br>2 | no | no | ✓ |

Passed all tests! ✓

Finish review

| | |
|---|---|
| **Status** | Finished |
| **Started** | Monday, 23 December 2024, 5:33 PM |
| **Completed** | Monday, 11 November 2024, 11:18 PM |
| **Duration** | 41 days 18 hours |

Question **1**

Correct

Marked out of 3.00

Flag question

Write a program that determines the name of a shape from its number of sides. Read the number of sides from the user and then report the appropriate name as part of a meaningful message. Your program should support shapes with anywhere from 3 up to (and including) 10 sides. If a number of sides outside of this range is entered then your program should display an appropriate error message.

Sample Input 1

3

Sample Output 1

Triangle

Sample Input 2

7

Sample Output 2

Heptagon

Sample Input 3

11

Sample Output 3

The number of sides is not supported.

**Answer:** (penalty regime: 0 %)

```c
#include <stdio.h>
int main() {
    int x;
    scanf ("%d",&x);
    if (x==3)
    {
        printf ("Triangle\n");
    }
    else if(x==4)
    {
        printf ("Quadrilateral\n");
    }
    else if(x==5)
    {
        printf ("Pentagon\n");
    }
    else if(x==6)
    {
        printf ("Hexagon\n");
    }
    else if(x==7)
    {
        printf ("Heptagon\n");
    }
    else if(x==8)
    {
        printf ("Octagon\n");
    }
    else if (x==9)
    {
        printf ("Nonagon\n");
    }
    else if (x==10)
    {
        printf ("Decagon\n");
```

| | Input | Expected |
|---|---|---|
| ✓ | 3 | Triangle |
| ✓ | 7 | Heptagon |
| ✓ | 11 | The number of sides is not supported. |

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Flag question

The Chinese zodiac assigns animals to years in a 12-year cycle. One 12-year cycle is shown in the table below. The pattern repeats from there, with 2012 being another year of the Dragon, and 1999 being another year of the Hare.

| Year | Animal |
|---|---|
| 2000 | Dragon |
| 2001 | Snake |
| 2002 | Horse |
| 2003 | Sheep |
| 2004 | Monkey |
| 2005 | Rooster |
| 2006 | Dog |
| 2007 | Pig |
| 2008 | Rat |
| 2009 | Ox |
| 2010 | Tiger |
| 2011 | Hare |

Write a program that reads a year from the user and displays the animal associated with that year. Your program should work correctly for any year greater than or equal to zero, not just the ones listed in the table.

Sample Input 1

2004

Sample Output 1

Monkey

Sample Input 2

2010

Sample Output 2

Tiger

**Answer:** (penalty regime: 0 %)

```
#include <stdio.h>
int main (){
    int x;
    scanf ("%d",&x);
    x=x%12;
    switch (x){
        case 0:
        printf ("Monkey\n");
        break;
        case 1:
        printf ("Rooster\n");
        break;
        case 2:
        printf ("Dog\n");
        break;
        case 3:
```

```
14          printf ("Dog\n");
15          break;
16          case 3:
17          printf ("pig\n");
18          break;
19          case 4:
20          printf ("Rat\n");
21          break;
22          case 5:
23          printf ("Ox\n");
24          break;
25          case 6:
26          printf ("Tiger\n");
27          break;
28          case 7:
29          printf ("Haren\n");
30          break;
31          case 8:
32          printf ("Dragon\n");
33          break;
34          case 9:
35          printf ("Snake\n");
36          break;
37          case 10:
38          printf ("Horse\n");
39          break;
40          case 11:
41          printf ("Sheep\n");
42          break;
43      }
44      return 0;
45  }
46
47
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 2004 | Monkey | Monkey | ✓ |
| ✓ | 2010 | Tiger | Tiger | ✓ |

Passed all tests! ✓

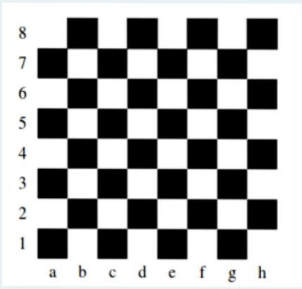
Question **3**

Correct

Marked out of 7.00

Flag question

Positions on a chess board are identified by a letter and a number. The letter identifies the column, while the number identifies the row, as shown below:




Write a program that reads a position from the user. Use an if statement to determine if the column begins with a black square or a white square. Then use modular arithmetic to report the color of the square in that row. For example, if the user enters a1 then your program should report that the square is black. If the user enters d5 then your program should report that the square is white. Your program may assume that a valid position will always be entered. It does not need to perform any error checking.

Sample Input 1

a 1

Sample Output 1

The square is black.

Sample Input 2

d 5

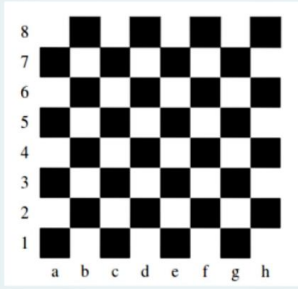
Question **3**

Correct

Marked out of 7.00

Flag question

Positions on a chess board are identified by a letter and a number. The letter identifies the column, while the number identifies the row, as shown below:




Write a program that reads a position from the user. Use an if statement to determine if the column begins with a black square or a white square. Then use modular arithmetic to report the color of the square in that row. For example, if the user enters a1 then your program should report that the square is black. If the user enters d5 then your program should report that the square is white. Your program may assume that a valid position will always be entered. It does not need to perform any error checking.

Sample Input 1

a 1

Sample Output 1

The square is black.

Sample Input 2

d 5

Sample Output 2

The square is white.

**Answer:** (penalty regime: 0 %)

```
#include <stdio.h>
int main() {
    char column;
    int row;
    scanf ("%c %d",&column,&row);
    if ((column+row)%2==0)
    {
        printf ("The square is black.");
    }
    else{
        printf ("The square is white.");
    }
    return 0;
    }
```

| | Input | Expected | Got |
|---|---|---|---|
| ✓ | a 1 | The square is black. | The square is bl |
| ✓ | d 5 | The square is white. | The square is wh |

Passed all tests! ✓

Finish review