WEEK-03

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WEEK-03-01

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> 1 2 int main(){

```
int a,b,c,d;
3
       scanf("%d%d",&a,&b);
4
5
        c=a%10;
6
       d=b%10;
        if(c==d){
7 ▼
            printf("true");
8
9
        6] 66{
```

14 } 15

```
Objective
```

Question 2

Marked out of 5.00

Flag question

Correct

Passed all tests! <

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

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

If *n* is even and in the inclusive range of *2* to *5*, print *Not Weird*

If *n* is odd, print Weird

Task

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.

Constraints

Input Format

1 ≤ n ≤ 100

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

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

Sample Input 0

Output Format

Sample Output 0

Weird

3

24

Sample Output 1

Sample Input 1

Not Weird

Sample Case 0: n = 3 $\emph{\textbf{n}}$ is odd and odd numbers are weird, so we print $\emph{\textbf{Weird}}$.

3

8 •

9 10

11 ▼

12

Sample Case 1: **n = 24**

int n;

Explanation

Answer: (penalty regime: 0 %) #include<stdio.h> 1 int main(){ 2 🔻

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

scanf("%d",&n); 4 5 ▼ if(n%2!=0){ printf("Weird"); 6 7

else if(n%2==0 &&n>=2&&n<=5){

else if(n%2 = 0&&n > = 6&&n < = 20){

printf("Weird");

printf("Not Weird");

```
13
              else if(n\%2 = = 0\&\&n > 20){
    14 ▼
                  printf("Not Weird");
    15
    16
    17
              return 0;
    18
    19
    20
    21
        |}
        Input Expected
                           Got
        3
                Weird
                           Weird
        24
               Not Weird | Not Weird
  Passed all tests! <
Question 3
```

```
Input 2 5 8 2 Sample Output 2 no
Answer: (penalty regime: 0 %)
```

2 🔻

#include<stdio.h>

int main(){

Correct

Marked out of 7.00

Flag question

3 int a,b,c; scanf("%d\n%d\n%d",&a,&b,&c); 4 if(a*a+b*b==c*c||b*b+c*c==a*a||a*a+c*c==b*b){ 5 ▼ printf("yes"); 6 7 else{ 8 • printf("no"); 9 10

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to

order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note

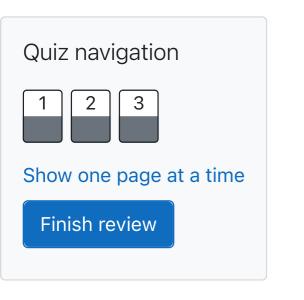
that the output message is in small letters. Sample Input 1 3 5 4 Sample Output 1 yes Sample

25 = 5*5 You are given three integers, a, b, and c. They need not be given in increasing

the square of the third. For example, 3, 5 and 4 form a Pythagorean triple, since 3*3 + 4*4 =

```
return 0;
11
12
    }
    Input | Expected | Got
    3
           yes
                       yes
    5
    4
    5
           no
                       no
    8
```

Finish review



2

Passed all tests! <

Sample Input 1

Sample Output 1

Sample Input 2

Sample Output 2

Heptagon

Sample Input 3

Sample Output 3

The number of sides is not supported.

#include<stdio.h>

if(n==3){

scanf("%d",&n);

else if(n==4){

else if(n==5){

else if(n==6){

else if(n==7){

else if(n==8){

else if(n==9){

else if(n==10){

else{

Input | Expected

Triangle

Heptagon

Dragon, and 1999 being another year of the Hare.

Animal

Dragon

Snake

Horse

Sheep

Monkey

Rooster

Dog

Pig

Rat

Ox

Tiger

Hare

the ones listed in the table.

Sample Input 1

Sample Output 1

Sample Input 2

Sample Output 2

Answer: (penalty regime: 0 %)

int main(){

#include<stdio.h>

int y,i;

}

const char*zodiac[]={

scanf("%d",&y);

i=(y-2000)%12;

i+=12;

printf("%s",zodiac[i]);

if (i<0){

return 0;

Expected

Monkey

Tiger

Got

Monkey

Tiger

column, while the number identifies the row, as shown below:

d

not need to perform any error checking.

Positions on a chess board are identified by a letter and a number. The letter identifies the

h

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

Input

2004

2010

Passed all tests! <

Question 3

Marked out of 7.00

Flag question

8

6

5

4

3

2

Sample Input 1

Sample Output 1

Sample Input 2

Sample Output 2

The square is white.

1 2 🔻

3 4

5

6 7 ▼

8 •

9

10 11

12 ▼

16 ▼

17 ▼

21

22 23 24

13 14 15

Answer: (penalty regime: 0 %)

int main(){

#include<stdio.h>

char col;

if(black){

}

else{

else{

else{

}

return 0;

Input | Expected

The square is black.

a 1

d 5

Quiz navigation

Finish review

Show one page at a time

Passed all tests! <

int row,black;

scanf("%c%d",&col,&row);

if(row%2==1){

if(row%2==1){

black=(col=='a'||col=='c'||col=='e'||col=='g');

printf("The square is black.");

printf("The square is white.");

printf("The square is white.");

printf("The square is black.");

Got

The square is white. The square is white.

The square is black.

Finish review

The square is black.

a 1

d 5

Correct

2004

Monkey

2010

Tiger

2 🔻

4 ▼

3

5

6

7 8 •

9

10

11

The number of sides is not supported.

The Chinese zodiac assigns animals to years in a 12-year cycle. One 12-year cycle is shown

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

"Dragon", "Snake", "Horse", "Sheep", "Monkey", "Rooster", "Dog", "P

in the table below. The pattern repeats from there, with 2012 being another year of the

return 0;

printf("Triangle");

printf("Pentagon");

printf("Hexagon");

printf("Heptagon");

printf("Octagon");

printf("Nonagon");

printf("Decagon");

printf("The number of sides is not supported.");

Got

Triangle

Heptagon

The number of sides is not s

printf("Quadrilateral");

int n;

Answer: (penalty regime: 0 %)

2 √ int main(){

3

4

6 7

5 ▼

8 •

9 10

11 ▼

14 ▼

17 ▼

20 🔻

23 🔻

24 25

26 ▼

29 •

30 31

32

}

3

7

11

Question 2

Marked out of 5.00

Flag question

Correct

Year

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

2010

2011

Passed all tests! <

27 28

21 22

18 19

15 16

12 13

Triangle

7

11

3

display an appropriate error message.

Question 1 Correct Marked out of 3.00

WEEK-03-02

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

WEEK-03-03

Flag question Some data sets specify dates using the year and day of year rather than the year, month, and day of month. The day of year (DOY) is the sequential day number starting with day 1 on January 1st. There are two calendars - one for normal years with 365 days, and one for leap years with 366 days. Leap years are divisible by 4. Centuries, like 1900, are not leap years unless they

Marked out of 3.00

Correct

Question 1

are divisible by 400. So, 2000 was a leap year.

Write a program to print the Day of Year of a given date, month and year. Sample Input 1

To find the day of year number for a standard date, scan down the Jan column to find the day of month, then scan across to the appropriate month column and read the day of year number. Reverse the process to find the standard date for a given day of year. 18

6 2020 Sample Output 1

170

Answer: (penalty regime: 0 %) #include<stdio.h>

int main(){ 2 🔻 int d, m, y, l=0; 3 scanf("%d%d%d",&d,&m,&y); 4 5

char day[]= $\{31,28,31,30,31,30,31,30,31,30,31\};$ 6 ▼ $if(y%4==0){$ 7 l=1;8 9 • if(m>2){ 10 d=d+1;11 for (int i=0;i<m-1;i++){ 12 🔻 d=d+day[i]; 13

14 printf("%d",d); 15 return 0; 16 } 17

Input Expected Got 18 170 170

6 2020 Passed all tests! <

Question 2 Correct Marked out of 5.00 Flag question

Suppandi is trying to take part in the local village math quiz. In the first round, he is asked

about shapes and areas. Suppandi, is confused, he was never any good at math. And also, he is bad at remembering the names of shapes. Instead, you will be helping him calculate the area of shapes. When he says rectangle he is actually referring to a square. When he says square, he is actually referring to a triangle.

When he says triangle he is referring to a rectangle And when he is confused, he just says something random. At this point, all you can do is say 0.

Help Suppandi by printing the correct answer in an integer. **Input Format**

Name of shape (always in upper case R à Rectangle, S à Square, T à Triangle)

Length of 1 side Length of other side

Note: In case of triangle, you can consider the sides as height and length of base **Output Format**

Print the area of the shape. Sample Input 1

Т 10

20 Sample Output 1

200 Sample Input 2

S 30 40

Sample Output 2 600

Sample Input 3 R 10 10

Sample Output 3

Sample Input 4

Sample Output 4

Sample Input

Sample Output 4

Explanation:

2 🔻

3

5

6

9

10 11

12 🔻

13

14 15 16

17 ▼

18

19 20 21

22 🔻 23

28

}

Input

Т

10 20

S 30 40

В

2 11

R

10 30

S

40 50

Question **3**

Marked out of 7.00

Input format: •

Example Input

Example Output

Kryptonday

1 2 🔻

3

4 5

6 ▼ 7

8 9

10

11 12

13

14 15

16

17 18

19

20

21

22

23 24

25

26

27 28

29 30

31

32 33

34

35

36

41

}

7

1

Quiz navigation

Finish review

Show one page at a time

Passed all tests! <

Input | Expected

Kryptonday

Monday

Example Input

Example Output Monday

Answer: (penalty regime: 0 %)

int main(){

#include<stdio.h>

int n,day;

scanf("%d",&n);

day=(n%296)%10;

case 0:

break;

case 1:

break;

break;

break;

break;

break;

break:

break; case 8:

break;

break;

return 0;

case 9:

case 7:

case 6:

case 5:

case 4:

case 3:

case 2:

printf("Sunday");

printf("Monday");

printf("Tuesday");

printf("Wednesday");

printf("Thursday");

printf("Friday");

printf("Saturday");

printf("Kryptonday");

printf("coluday");

printf("Dexamday");

Got

Kryptonday

Monday

✓

Finish review

switch(day){

7

Contain a number n (0 < n)

Correct

Passed all tests! <

7 🔻 8

First is output of area of rectangle

Finally, something random, so we print 0

scanf("%c%d%d",&ch,&a,&b);

printf("%d",c);

printf("%.1f",f);

else if(ch == 'S'){

else if(ch == 'T'){

printf("%d",c);

printf("%d",c);

Got

200

600.0

0

300

1000.0

Superman is planning a journey to his home planet. It is very important for him to know which

day he arrives there. They don't follow the 7-day week like us. Instead, they follow a 10-day

Wednesday 5 Thursday 6 Friday 7 Saturday 8 Kryptonday 9 Coluday 10 Daxamday Here are

the rules of the calendar: • The calendar starts with Sunday always. • It has only 296 days.

After the 296th day, it goes back to Sunday. You begin your journey on a Sunday and will

reach after n. You have to tell on which day you will arrive when you reach there.

Output format: Print the name of the day you are arriving on

week with the following days: Day Number Name of Day 1 Sunday 2 Monday 3 Tuesday 4

/

c=a*b;

C=0;

return 0;

Expected

200

600

0

300

1000

else{

f=0.5*a*b;

Then, output of area of triangle

Then output of area square

Answer: (penalty regime: 0 %)

int main(){

#include<stdio.h>

int a,b,c; float f;

if (ch == 'R'){

c=a*b;

char ch;

100

G

8

8

0

C

9

10

0