Marked out of 3.00

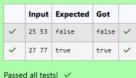
Question 1

Correct

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>
 2 * int main(){
        int a,b;
       scanf("%d %d",&a,&b);
       if ((a%10)==(b%10)){
            printf("true");
8 +
       else{
9
           printf("false");
10
11
```



Question 2 Correct	Objective
Marked out of 5.00	In this challenge, we're getting started with conditional statements.
P Flag question	Task
	Given an integer, n , perform the following conditional actions:
	If n is odd, print Weird
	If <i>n</i> is even and in the inclusive range of <i>2</i> to <i>5</i> , print <i>Not Weird</i>
	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 <i>n</i> 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 %) 1 #include<stdio.h> 2 * int main(){ 3 int n; scanf("%d",&n); 4 if (n%2!=0){printf("Weird");} else if ((n<=5)&(n>=2)){ 6 + 7 printf("Not Weird"); 8 9 + else if(n<21){ 10 printf("Weird"); 11 12 else { 13 printf("Not Weird"); 14 15 }

	Input	Expected	Got	
~	3	Weird	Weird	~
,	24	Not Waind	Not Weird	. ,

Question 3 Correct Marked out of 7.00

F 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

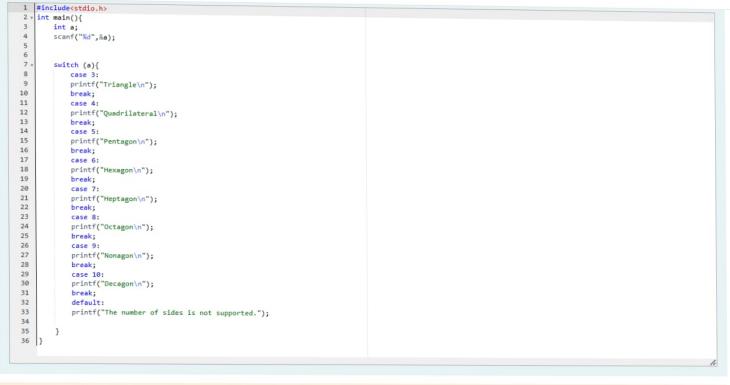
Answer: (penalty regime: 0 %)

1 #include(stdio.h>
2 int main(){
3 int a, b, c;

```
scanf("%d %d %d",&a,&b,&c);
        if ((a*a)+(b*b)==(c*c)){
           printf("yes"):
 9 .
        else if ((a*a)+(c*c)==(b*b)) {
10
           printf("yes");
11
12 .
        else if((b*b)+(c*c)==(a*a)){
13
            printf("no");
14
15
16 .
        else{
17
           printf("no");
18
19
20
21
22 }
```

	Input	Expected	Got	
~	3 5 4	yes	yes	,
~	5 8 2	no	no	,

Question 1 Correct Marked out of 3.00 P 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 %)
	1 #include(stdio,h)



	Input	Expected	Got	
/	3	Triangle	Triangle	~
/	7	Heptagon	Heptagon	~
/	11	The number of sides is not supported.	The number of sides is not supported.	~

Question 2 Correct Marked out of 5.00	The Chin another y	ese 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 year of the Hare.
P Flag question	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 pro	ogram 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 e.
	Sample Inp	out 1
	2004	
	Sample Out	tput 1
	Monkey	
	Sample Inpu	ut 2

Sample Output 2

Tiger

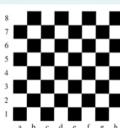
Answer: (penalty regime: 0 %) 1 |#include<stdio.h>

```
2 + int main(){
        int b;
        int a:
        scanf("%d",&a);
       b=(a-2000)%12;
       switch(b){
           case 0:
           printf("Dragon"):
10
           break;
11
           case 1:
12
           printf("Sanke");
13
           break:
14
           case 2:
15
           printf("Horse");
16
           break;
17
           case 3:
18
           printf("Sheep");
19
           break;
20
           case 4:
21
           printf("Monkey");
22
           break;
23
           case 5:
24
           printf("Rooster");
25
           break;
26
           case 6:
27
           printf("Dog");
28
           break:
29
           case 7:
30
           printf("Pig");
31
           break;
32
           case 8:
33
           printf("Rat");
34
           break;
35
           case 9:
36
           printf("Ox");
37
           case 10:
38
           printf("Tiger");
39
           break;
48
           case 11:
41
           printf("Hare");
42
43
44
45
```



Correct Marked out of 7.00 F Flag question

Question 3



abcdefgh 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.

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:

Sample Input 1

a 1

Sample Output 1

The square is black.

Sample Input 2

Sample Output 2

d5

```
Sample Input 2
```

Sample Output 2

d 5

The square is white.

Answer: (penalty regime: 0 %) 1 |#include <stdio.h>

```
2 , int main(){
       int r;
4
       char a;
5
       scanf("%c %d",&a,&r);
6
       int cn =a-'a'+1;
       if((cn+r)%2==0){
           printf("The square is black.\n");
 8
9 .
       }else{
10
           printf("The square is white.");
11
12 }
```

	Input	Expected	Got	
~	a 1	The square is black.	The square is black.	~
~	d 5	The square is white.	The square is white.	~

Question 1 Correct	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.
Marked out of 3.00 P Flag question	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 are divisible by 400. So, 2000 was a leap year.
	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.
	Write a program to print the Day of Year of a given date, month and year.
	Sample Input 1
	18 6
	2020
	Sample Output 1
	170
	Answer: (penalty regime: 0 %)
i	1 #includecstdio.h>
i	2 int main() 3 * {
	4 int d,y,m,a=0;
i	5 scanf("%d\n%d \n%d",&d,&m,&y); 6 * if (((y%4==0)&&(y%100!=0)) (y%490==0)){
i	7 a=1;
i	8 } 9 if (m>1){d+=31;}
	10
i	12 if (m)4){d=30;}
	13
	15 if (m)7)(d+=31;)
i	16
i	18 if (m)10){d+=31;}
1	19
i	21 printf("%d",d);
1	22 }



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

5.00

Input Expected Got

Print the area of the shape.

178 🗸

18 170

Sample Input 1
T 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
100

```
Sample Input
C
10
Sample Output 4
0
Explanation:
     First is output of area of rectangle
     Then, output of area of triangle
     Then output of area square
     Finally, something random, so we print 0
Answer: (penalty regime: 0 %)
   1 #include(stdio.h)
   2 + int main(){
   3
           char a;
    4
          int b,c,d;
   5
           scanf("%c\n%d\n%d",&a,&b,&c);
   6 +
          if(a=='5'){
   7
              d=0.5°b°c;
   8
           }else if(a=='R'){
   9 .
  10
               d=b*c;
  11,
           }else if (a=='T'){
  12
              d=b*c;
  13 .
           }else{
  14
              d=0;
  15
  16
           printf("%d",d);
  17 }
```

	Input	Expected	Got
~	T 10 20	200	200
~	S 30 40	600	600
~	8 2 11	0	0
~	R 10 30	300	388
~	5 40 50	1000	1000

Answer: (penalty regime: 0.96)

Question 3

Marked out of

Correct

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 week with the following days: Day Number Name of Day 1 Sunday 2 Monday 3 Tuesday 4 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. Input format: • F Flag question Contain a number n (0 < n) Output format: Print the name of the day you are arriving on Example Input Example Output Kryptonday

Example Input Example Output Monday

```
Contain a number n (0 < n)
Output format: Print the name of the day you are arriving on
Example Input
Example Output
Kryptonday
Example Input
Example Output Monday
Answer: (penalty regime: 0 %)
   1 #include(stdio.h>
   2 - int main(){
          int a;
          scanf("%d",&a);
   4
          if(a>296) { a=(a-296)%10;}
   5
   6
          a=a%10:
          if (a==0){printf("Sunday");}
   7
          if (a==1)(printf("Monday");}
  9
          if (a==2){printf("Tuesday");}
          if (a==3){printf("Wednesday");}
  10
          if (a==4){printf("Thursday");}
  11
          if (a==5){printf("Friday");}
  12
          if (a==6){printf("Saturday");}
  13
          if (a==7){printf("Kryptonday");}
  14
  15
          if (a==8){printf("Coluday");}
 16
          if (a==9){printf("Daxamday");}
  17
 18 }
     Input Expected Got
            Kryptonday Kryptonday 🗸
    1
            Monday
                       Monday
```

Passed all tests! <