WEEK 3 : 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 %)

SOURCE CODE

```
#include<stdio.h>
int main()
{
  int a,b;
  scanf("%d %d",&a,&b);
  int d=a%10;
  int e=b%10;

    if((d==e))

    {
        printf("true");
    }

 else
 {
     printf("false");
  }
  return 0;
}
```

RESULT

| | 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**

**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 %)

SOURCE CODE

```c
#include<stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if((n%2==1))
    {
        printf("Weird");
    }
    if((n%2==0)&&(n>2)&&(n<5))
    {
        printf("Not Weird");
    }
    if((n%2==0)&&(n>6)&&(n<20))
    {
        printf("Weird");
    }
    if((n>20))
    {
        printf("Not Weird");
    }
    return 0;

}
```

RESULT

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

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 %)

SOURCE CODE

```
#include<stdio.h>
int main()
{
    int a,b,c;
    scanf("%d %d %d",&a,&b,&c);
    if((c*c)==(a*a)+(b*b))
    {
        printf("yes");
    }
    else if((a*a)==(c*c)+(b*b))
    {
        printf("yes");
    }
    else if((b*b)==(a*a)+(c*c))
    {
        printf("yes");
    }
    else
    {
    printf("no");
    }
    return 0;
}
```

RESULT

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

Passed all tests! ✓