

Week-03-Decision Making and Branching - if, if...else and nested if...else, if...else if and switch...case

[Week-03-01-Practice Session-Coding](#)

Question 1
Correct
Marked out of

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

[Source code](#)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b;
5     scanf("%d%d",&a,&b);
6     if(a%10==b%10)
7         printf("true");
8     else
9         {printf("false");}
10    return 0;
11 }
```

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

- $1 \leq n \leq 100$

Output Format

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

Source code

```
1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     if(n%2==0)
7         printf("Not Weird");
8     else
9         printf("Weird");
10    return 0;
11 }
```

Result

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

Passed all tests! ✓

Question 3

Correct

Marked out of
7.00

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 $3^2 + 4^2 = 25 = 5^2$. 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

Source code

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b,c;
5     scanf("%d%d%d",&a,&b,&c);
6     if(a*a+b*b==c*c || b*b+c*c==a*a || a*a+c*c==b*b)
7         printf("yes");
8     else
9         printf("no");
10    return 0;
11 }
```

Result

	Input	Expected	Got	
✓	3 5 4	yes	yes	✓
✓	5 8 2	no	no	✓

Passed all tests! ✓