

Week 3 – 1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801195

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Q1) 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

Code:

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Saturday, 26 October 2024, 2:21 PM
Duration	58 days 3 hours

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

OUTPUT:

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

Passed all tests! ✓

Q2) 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

Code:

```

1  #include<stdio.h>
2  int main()
3  {int a;
4  scanf("%d",&a);
5  if(a%2==0)
6  {
7      if(a<5)
8      printf("Not Weird");
9      else if(a<20)
10     printf("Weird");
11     else printf("Not Weird");
12
13
14 }
15 else printf("Weird");
16 return 0;}

```

OUTPUT:

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

Passed all tests! ✓

Q3) 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

Code:

```

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

```

OUTPUT:

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

Passed all tests! ✓