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

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

```c
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\n");
9   else
10  printf("false");
11  return 0;
12  }
```

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

Passed all tests! ✓

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.

Answer: (penalty regime: 0 %)

```c
1  #include<stdio.h>
2  int main(){
3      int n;
4      scanf("%d",&n);
5      if ((n%2==1)||((6<=n)&&(n<=20)))
6      printf("Weird");
7      else
8      printf("Not Weird");
9      return 0;
10 }
```

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

Passed all tests! ✓

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

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

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

Passed all tests! ✓