WEEK 2

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 %)

```c
#include <stdio.h>
int main()
{
    int a,b,c,d;
    scanf("%d %d",&a,&b);
    c=a%10;
    d=b%10;
    if (c==d)
        printf("true");
    else
        printf("false");
    return 0;
}
```

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

Passed all tests! ✓

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 %)

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

	Input	Expected	Got	
✓	3	Weird	Weird	✓

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 %)

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

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

Sample Output 3

The number of sides is not supported.

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main()
{
    int x;
    scanf("%d",&x);
    switch (x)
    {
        case 3:
        printf("Triangle");
        break;
        case 4:
        printf("Quadrilateral");
        break;
        case 5:
        printf("Pentagon");
        break;
        case 6:
        printf("Hexagon");
        break;
        case 7:
        printf("Heptagon");
        break;
        case 8:
        printf("Octagon");
        break;
        case 9:
        printf("Nonagon");
        break;
        case 10:
        printf("Decagon");
        break;
        default:
        printf("The number of sides is not supported.");
    }
    return 0;
}
```

	Input	Expected	Got	
✓	3	Triangle	Triangle	✓

Monkey

Sample Input 2

2010

Sample Output 2

Tiger

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
const char* za[]={"Monkey","Rooster","Dog","Pig","Rat","Ox","Tiger","Hare","Dragon","Snake","Horse","Sheep"};
int main(){
    int y;
    scanf("%d",&y);
    int zi = y%12;
    printf("%s",za[zi]);
}
```

	Input	Expected	Got	
✓	2004	Monkey	Monkey	✓
✓	2010	Tiger	Tiger	✓

Passed all tests! ✓

Sample Output 1

The square is black.

Sample Input 2

d 5

Sample Output 2

The square is white.

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    char c;
    int p;
    scanf("%c %d",&c,&p);
    if (c=='a'||c=='c'||c=='e'||c=='g')
    {
        if (p==1||p==3||p==5||p==7)
            printf("The square is black.");
        else
            printf("The square is white.");
    }
    else
    {
        if (p==1||p==3||p==5||p==7)
            printf("The square is white.");
        else
            printf("The square is black.");
    }
    return 0;
}
```

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

18

6

2020

Sample Output 1

170

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int d,m,y,doy,dof=28;
    scanf("%d %d %d",&d,&m,&y);
    doy=d;
    if ((y%4==0 && y%100!=0)||(y%400==0))
        dof=29;
    switch(m){
        case 2:doy+=31;break;
        case 3:doy+=31+dof;break;
        case 4:doy+=31+dof+31;break;
        case 5:doy+=31+dof+31+30;break;
        case 6:doy+=31+dof+31+30+31;break;
        case 7:doy+=31+dof+31+30+31+30;break;
        case 8:doy+=31+dof+31+30+31+30+31;break;
        case 9:doy+=31+dof+31+30+31+30+31+31;break;
        case 10:doy+=31+dof+31+30+31+30+31+31+30;break;
        case 11:doy+=31+dof+31+30+31+30+31+31+30+31;break;
        case 12:doy+=31+dof+31+30+31+30+31+31+30+31+30;break;
    }
    printf("%d",doy);
    return 0;
}
```

	Input	Expected	Got	
✓	18 6 2020	170	170	✓

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 %)

```c
#include <stdio.h>
int main(){
    int a,b,d=0;
    char c;
    scanf("%c %d %d",&c,&a,&b);
    switch(c){
        case 'T': printf("%d",(a*b));break;
        case 'S': printf("%d",((a*b)/2));break;
        case 'R': printf("%d",(a*b));break;
        default: printf("%d",d);
    }
    return 0;
}
```

	Input	Expected	Got	
✓	T 10 20	200	200	✓

Contain a number n (0 < n)

Output format: Print the name of the day you are arriving on

Example Input

7

Example Output

Kryptonday

Example Input

1

Example Output Monday

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int n,i;
    scanf("%d",&n);
    i=(n%296)%10;
    switch(i){
        case 0: printf("Sunday");break;
        case 1: printf("Monday");break;
        case 2: printf("Tuesday");break;
        case 3: printf("Wednesday");break;
        case 4: printf("Thursday");break;
        case 5: printf("Friday");break;
        case 6: printf("Saturday");break;
        case 7: printf("Kryptonday");break;
        case 8: printf("Coluday");break;
        case 9: printf("Daxamday");break;
    }
    return 0;
}
```

	Input	Expected	Got	
✓	7	Kryptonday	Kryptonday	✓
✓	1	Monday	Monday	✓

Passed all tests! ✓