

GE23131-Programming Using C-2024

Navigation

- ✓ Dashboard
- [Site home](#)
- [Site pages](#)
- ✓ My courses
- ✓ GE23131-PUC-2024
 - [Participants](#)
 - [Competencies](#)
 - [Grades](#)
 - [General](#)
 - [Lecture Notes](#)
 - [Week-01-Overview of C, Constants, Variables and Da...](#)
 - [Assessment-01-Overview of C, Constants, Variables](#)
 - ...
 - [Week-02-Operators and Expressions, Managing Input ...](#)
 - [Assessment-02-Operators and Expressions, Managing ...](#)
 - ✓ Week-03-Decision Making and Branching - if, if...else...
 - [Week-03-01-Practice Session-Coding](#)
 - [Week-03-02-Practice Session-Coding](#)
 - [Week-03-03-Practice Session-Coding](#)
 - [Array Applications](#)

Attempts allowed: 3

This quiz has been configured so that students may only attempt it using the Safe Exam Browser.

Time limit: 2 hours

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 7 November 2024, 9:43 AM
Duration	46 days 7 hours

[Review](#)

The Safe Exam Browser keys could not be validated. Check that you're using Safe Exam Browser with the correct configuration file.

[Download Safe Exam Browser](#)

[Launch Safe Exam Browser](#)

[Download configuration](#)

[Back to the course](#)

GE23131-Programming Using C-2024

Quiz navigation



Show one page at a time

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 7 November 2024, 9:43 AM
Duration	46 days 7 hours

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 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b,r1,r2;
5     scanf("%d%d",&a,&b);
6     r1=a%10;
7     r2=b%10;
8     if(r1==r2)
9         printf("true");
10    else
11        printf("false");
12 }
13 }
```

	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

REC-CIS

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

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 %)

```

1 #include <stdio.h>
2 int main()
3 {
4     int x;
5     scanf("%d",&x);
6     if (x%2!=0)
7         printf("Weird");
8     else
9     {
10        if (2<=x&&x<=5)
11            printf("Not Weird");
12        if (6<=x&&x<=20)
13            printf("Weird");
14        if (x>=20)
15            printf("Not Weird");
16    }
17 }
18 }
```

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

Passed all tests! ✓

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

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b,c,a1,b1,c1;
5     scanf("%d%d%d",&a,&b,&c)
6     a1=a*a;
7     b1=b*b;
8     c1=c*c;
9     if ((a1==b1+c1) || (b1==a1
10    printf("yes");
11    else
12    printf("no");
13    return 0;
14 }
```

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

Passed all tests! ✓

[Finish review](#)

GE23131-Programming Using C-2024

Navigation

- ✓ Dashboard
 - 🏠 Site home
 - Site pages
- ✓ My courses
 - ✓ GE23131-PUC-2024
 - Participants
 - Competencies
 - ▣ Grades
 - General
 - Lecture Notes
 - Week-01-Overview of C, Constants, Variables and Da...
 - Assessment-01-Overview of C, Constants, Variables
 - ...
 - Week-02-Operators and Expressions, Managing Input ...
 - Assessment-02-Operators and Expressions, Managing ...
 - ✓ Week-03-Decision Making and Branching - if, if...e...
 - ▣ Week-03-01-Practice Session-Coding
 - ▣ **Week-03-02-Practice Session-Coding**
 - ▣ Week-03-03-Practice Session-Coding
 - ▣ Array

Attempts allowed: 2

This quiz has been configured so that students may only attempt it using the Safe Exam Browser.

Time limit: 2 hours

Grading method: Highest grade

Your attempts

Attempt 1	
Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 21 November 2024, 9:21 AM
Duration	32 days 8 hours
Review	

The Safe Exam Browser keys could not be validated. Check that you're using Safe Exam Browser with the correct configuration file.

[Launch Safe Exam Browser](#)

[Download configuration](#)

[Back to the course](#)

GE23131-Programming Using C-2024

Quiz navigation



Show one page at a time

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 21 November 2024, 9:21 AM
Duration	32 days 8 hours

Question 1

Correct

Marked out of
3.00

[Flag question](#)

Write a program that determines the name of a shape from its number of sides. Read the number of sides from the user and then report the appropriate name as part of a meaningful message. Your program should support shapes with anywhere from 3 up to (and including) 10 sides. If a number of sides outside of this range is entered then your program should display an appropriate error message.

Sample Input 1

3

Sample Output 1

Triangle

Sample Input 2

7

Sample Output 2

Heptagon

Sample Input 3

11

Sample Output 3

The number of sides is not supported.

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int side;
5     scanf("%d",&side);
6     if (side==3)
7         printf("Triangle");
8     else if (side==4)
9         printf("Square");
10    else if (side==5)
11        printf("Pentagon");
12    else if (side==6)
13        printf("Hexagon");
14    else if (side==7)
15        printf("Heptagon");
16    else if (side==8)
17        printf("Octagon");
18    else if (side==9)
19        printf("Nonagon");
20    else if (side==10)
21        printf("Decagon");
22    else if (side>10)
23        printf("The number of si
24    return 0;
25 }
```

	Input	Expected
✓	3	Triangle
✓	7	Heptagon
✓	11	The number of sides is

Passed all tests! ✓

Question 2

Correct

Marked out of
5.00 [Flag question](#)

The Chinese zodiac assigns animals to years in a 12-year cycle. One 12-year cycle is shown in the table below. The pattern repeats from there, with 2012 being another year of the Dragon, and 1999 being another year of the Hare.

Year	Animal
2000	Dragon
2001	Snake
2002	Horse
2003	Sheep
2004	Monkey
2005	Rooster
2006	Dog
2007	Pig
2008	Rat
2009	Ox
2010	Tiger
2011	Hare

Write a program that reads a year from the user and displays the animal associated with that year. Your program should work correctly for any year greater than or equal to zero, not just the ones listed in the table.

Sample Input 1

2004

Sample Output 1

Monkey

2010

Sample Output 2

Tiger

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int year;
5     scanf("%d",&year);
6     if (year==2000||(year-20
7         printf("Dragon");
8         if (year==2001||(year-20
9             printf("Snake");
10        if (year==2002||(year-20
11            printf("Horse");
12            if (year==2003||(year-20
13                printf("Sheep");
14                if (year==2004||(year-20
15                    printf("Monkey");
16                    if (year==2005||(year-20
17                        printf("Rooster");
18                        if (year==2006||(year-20
19                            printf("Dog");
20                            if (year==2007||(year-20
21                                printf("Pig");
22                                if (year==2008||(year-20
23                                    printf("Rat");
24                                    if (year==2009||(year-20
25                                        printf("Ox");
26                                        if (year==2010||(year-20
27                                            printf("Tiger");
28                                            if (year==2011||(year-20
29                                                printf("Hare");
30                                                return 0;
31 }

```

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

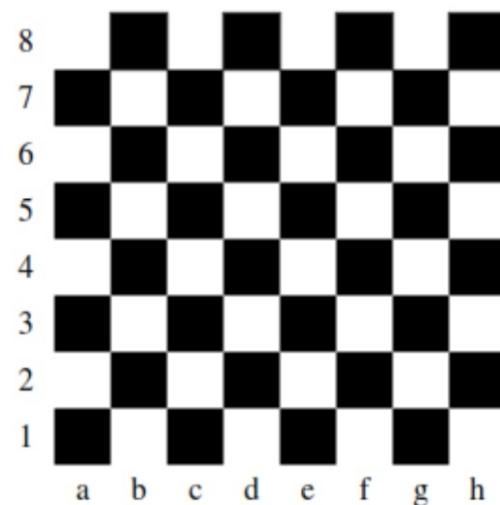
Passed all tests! ✓

Question 3

Correct

Marked out of
7.00 [Flag question](#)

Positions on a chess board are identified by a letter and a number. The letter identifies the column, while the number identifies the row, as shown below:



Write a program that reads a position from the user. Use an if statement to determine if the column begins with a black square or a white square. Then use modular arithmetic to report the color of the square in that row. For example, if the user enters a1 then your program should report that the square is black. If the user enters d5 then your program should report that the square is white. Your program may assume that a valid position will always be entered. It does not need to perform any error checking.

Sample Input 1

a 1

Sample Output 1

The square is black.

Sample Input 2

d 5

Sample Output 2

The square is white.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     char c;
5     int n;
6     scanf("%c%d",&c,&n);
7     int c1=c-'a'-1;
8     if((c1+n)%2==0)
9         printf("The square is bl
10    else
11        printf("The square is wh
12    return 0;
13 }
```

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

Passed all tests! ✓

Finish review

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

Dashboard / My courses / GE23131-PUC-2024 / Week-03-Decision Making and Branching - if, if...e...

Navigation

✓ Dashboard

 Site home

> Site pages

✓ My courses

✓ GE23131-PUC-2024

> Participants

Competencies

 Grades

> General

> Lecture Notes

> Week-01-Overview
of C, Constants,
Variables and Da...

> Assessment-01-
Overview of C,
Constants, Variables

...

> Week-02-Operators
and Expressions,
Managing Input ...

> Assessment-02-
Operators and
Expressions,
Managing ...

✓ Week-03-Decision
Making and
Branching - if, if...e...

 Week-03-01-
Practice Session-
Coding

 Week-03-02-
Practice Session-
Coding

 Week-03-03-
Practice Session-
Coding

 Array Applications

 Problem solving
with Strings

 String
manipulation
functions

> Assessment-03-
Decision Making and
Branching - if, ...

> Lab-04-Decision
Making and Branching
- if...else i...

◀ Assessment-02-Operators and Expressions, Managing
Input and Output Operations

▶ Assessment-03-Decision Making and Branching - if,
if...else and nested if...else

 Week-03-01-Practice Session-Coding

 Done

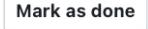
 Week-03-02-Practice Session-Coding

 Done

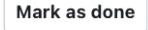
 Week-03-03-Practice Session-Coding

 Done

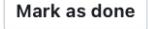
 Array Applications

 Mark as done

 Problem solving with Strings

 Mark as done

 String manipulation functions

 Mark as done

◀ Assessment-02-Operators and Expressions,

Managing Input
Output
Operations

Jump to...

▶ Assessment-03-Decision Making and Branching - if...else and nested if...else

GE23131-Programming Using C-2024

Quiz navigation



Show one page at a time

[Finish review](#)

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 21 November 2024, 9:51 AM
Duration	32 days 7 hours

Question 1

Correct

Marked out of
3.00

[Flag question](#)

Some data sets specify dates using the year and day of year rather than the year, month, and day of month. The day of year (DOY) is the sequential day number starting with day 1 on January 1st.

There are two calendars - one for normal years with 365 days, and one for leap years with 366 days. Leap years are divisible by 4. Centuries, like 1900, are not leap years unless they are divisible by 400. So, 2000 was a leap year.

To find the day of year number for a standard date, scan down the Jan column to find the day of month, then scan across to the appropriate month column and read the day of year number. Reverse the process to find the standard date for a given day of year.

Write a program to print the Day of Year of a given date, month and year.

Sample Input 1

18

6

2020

REC-CIS

Sample Output 1

170

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int d,m,y,day=0,ly;
5     scanf("%d%d%d",&d,&m,&y)
6     ly=(y%100!=0||(y%400==0))
7     switch(m)
8     {
9         case 12:day+=30;
10        case 11:day+=31;
11        case 10:day+=30;
12        case 9:day+=31;
13        case 8:day+=30;
14        case 7:day+=31;
15        case 6:day+=31;
16        case 5:day+=30;
17        case 4:day+=31;
18        case 3:
19            if (ly)
20                day+=29;
21            else
22                day+=28;
23        case 2:day+=31;
24        default: break;
25    }
26    day+=d;
27    printf("%d",day);
28    return 0;
29 }
```

	Input	Expected	Got	
✓	18 6 2020	170	170	✓

Passed all tests! ✓

Question 2

Correct

Marked out of
5.00 [Flag question](#)

Suppandi is trying to take part in the local village math quiz. In the first round, he is asked about shapes and areas. Suppandi, is confused, he was never any good at math. And also, he is bad at remembering the names of shapes. Instead, you will be helping him [calculate the area](#) of shapes.

- When he says rectangle he is actually referring to a square.
- When he says square, he is actually referring to a triangle.
- When he says triangle he is referring to a rectangle
- And when he is confused, he just says something random. At this point, all you can do is say 0.

Help Suppandi by printing the correct answer in an integer.

Input Format

- Name of shape (always in upper case R à Rectangle, S à Square, T à Triangle)
- Length of 1 side
- Length of other side

Note: In case of triangle, you can consider the sides as height and length of base

Output Format

- Print the area of the shape.

Sample Input 1

T

20

Sample Output 1

200

Sample Input 2

S

30

40

Sample Output 2

600

Sample Input 3

R

10

10

Sample Output 3

100

Sample Input 4

G

8

8

Sample Output 4

0

Sample Input

C

9

10

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 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int l,b,a;
5     char ch;
6     scanf("%c%d%d",&ch,&l,&b);
7     if (ch=='R')
8     {
9         a=l*b;
10        printf("%d",a);
11    }
12    else if(ch=='S')
13    {
14        a=0.5*l*b;
15        printf("%d",a);
16    }
17    else if (ch=='T')
18    {
19        a=l*b;
20        printf("%d",a);
21    }
22    else
23    {
24        printf("0");
25    }
26
27 }
```

	Input	Expected	Got	
✓	T 10 20	200	200	✓
✓	S 30 40	600	600	✓
✓	B 2 11	0	0	✓
✓	R 10 30	300	300	✓
✓	S 40 50	1000	1000	✓

Passed all tests! ✓

Question 3

Correct

Marked out of
7.00

 [Flag question](#)

Superman is planning a journey to his home planet. It is very important for him to know which day he arrives there. They don't follow the 7-day week like us. Instead, they follow a 10-day week with the following days: Day Number Name of Day 1 Sunday 2 Monday 3 Tuesday 4 Wednesday 5 Thursday 6 Friday 7 Saturday 8 Kryptonday 9 Coluday 10 Daxamday Here are the rules of the calendar:

- The calendar starts with Sunday always.
- It has only 296 days. After the 296th day, it goes back to Sunday. You begin your journey on a Sunday and will reach after n. You have to tell on which day you will arrive when you reach there.

Input format:

Contain a number n ($0 < n$)

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

Example Input

Example Output

Kryptonday

Example Input

1

Example Output Monday

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i;
5     scanf("%d",&n);
6     i=(n%296)%10;
7     switch(i)
8     {
9         case 0:printf("Sunda
10        case 1:printf("Monda
11        case 2:printf("Tuesd
12        case 3:printf("Wedne
13        case 4:printf("Thurs
14        case 5:printf("Frida
15        case 6:printf("Satur
16        case 7:printf("Krypt
17        case 8:printf("Colud
18        case 9:printf("Daxod
19    }
20    return 0;
21 }
```

	Input	Expected	Got
✓	7	Kryptonday	Kryptonday
✓	1	Monday	Monday

Passed all tests! ✓

[Finish review](#)