GE23131-Programming Using C-2024



Status Finished		
Started	Monday, 23 December 2024, 5:33 PM	
Completed	Thursday, 7 November 2024, 9:00 AM	
Duration 46 days 8 hours		

Ouestion **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

Sample Output 2

Heptagon

Sample Input 3

The number of sides is not supported.

Answer: (penalty regime: 0 %)

Sample Output 3

```
#include<stdio.h>
    int main()
 2
 3 🔻
 4
        int s;
        scanf("%d",&s);
        if(s==3)
        printf("Triangle");
 8
        else if(s==4)
        printf("Quadilateral");
 9
10
        else if(s==5)
        printf("Pentagon");
11
        else if(s==6)
12
        printf("Hexagon");
13
        else if(s==7)
14
        printf("Heptagon");
15
16
        else if(s==8)
        printf("Octagon");
17
        else if(s==9)
18
19
        nrintf("Nonagon").
```

```
printf("The number of sides is not supported.");
return 0;
}
```

	Input	Expected	Got	
~	3	Triangle	Triangle	~
~	7	Heptagon	Heptagon	~
~	11	The number of sides is not supported.	The number of sides is not supported.	~

Passed all tests! <

Question ${\bf 2}$

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

2007	Pig	
2008	Rat	
2009	Ox	
2010	Tiger	
2011	Hare	
with that yea	gram that reads a year from the user and displays the animal associated ar. Your program should work correctly for any year greater than or equal just the ones listed in the table.	
Sample Inpu	t 1	
2004		
Sample Outp	out 1	
Monkey		
Sample Inpu	t 2	
2010		
Sample Outp	out 2	
Tiger		

```
Answer: (penaity regime: 0 %)
```

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

	Input	Expected	Got	
~	2004	Monkey	Monkey	~

Passed all tests! <

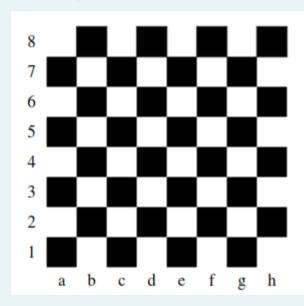
Question **3**

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

The square is black. Sample Input 2 d 5 Sample Output 2 The square is white. **Answer:** (penalty regime: 0 %) #include<stdio.h> int main() 2 3 ₹ { 4 char x;

```
int y;
        scanf("%c %d",&x,&y);
        if(x=='a'||x=='c'||x=='e'||x=='g')
 8 1
            if(y\%2==0)
            printf("The square is white.");
10
11
12
            printf("The square is black.");
13
14
        else
15 •
16
            if(y\%2==0)
            printf("The square is black.");
17
18
            else
            printf("The square is white.");
19
20
21
        return 0;
22
```

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

Passed all tests! ✓

Finish review