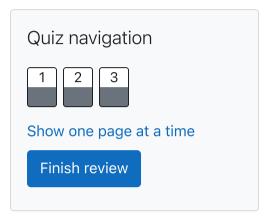
## GE23131-Programming Using C-2024



Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 28 October 2024, 9:37 PM
Duration	55 days 19 hours

Question 1

Correct

Marked out of 3.00

 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

Heptagon Sample Input 3 11 Sample Output 3 The number of sides is not supported. Answer: (penalty regime: 0 %) #include <stdio.h> 2 int main() 3 √ {int a; scanf("%d",&a);  $\{if (a<3)\}$ {printf("The number of sides is not supported."); else if (a==3){printf("Triangle\n"); 10 11 else if (a==4) {printf("Quadrilateral\n"); 12 13 else if (a==5) {printf("Pentagon\n"); 15 16 else if (a==6) {printf("Hexagon\n"); 19

Sample Output 2

```
else if (a==8)
24
    {printf("Octagon\n");
26
   else if (a==9)
    {printf("Nonagon\n");
27
28
29
   else if (a==10)
    {printf("Decagon\n");
30
31
32
   else
33
    {printf("The number of sides is not supported.");
34
35
    return 0;
36
37
38
39
```

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

Passed all tests! <

Question  ${f 2}$ 

Correct

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

ү над				
question	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			

```
2010
Sample Output 2
Tiger
Answer: (penalty regime: 0 %)
   1 #include <stdio.h>
     int main()
   2
   3 🔻
      int a,b;
      scanf("%d",&a);
      b=(a-2000)\%12;
      b++;
   8 √ switch(b){
      case 1:
      printf("Dragon"); break;
  11
      case 2:
  12
      printf("Snake"); break;
  13
      case 3:
  14
      printf("Horse"); break;
  15
      case 4:
  16
      printf("Sheep"); break;
  17
      case 5:
  18
      printf("Monkey"); break;
  19
      case 6:
      printf("Rooster"); break;
  20
      case 7:
  22
      printf("Dog"); break;
  23
      case 8:
      printf("Pig"); break;
      case 9:
```

Sample Input 2

```
29 | case 11:

printf("Tiger"); break;

31 | case 12:

printf("Hare"); break;

default:

printf("\n");}

return 0;

36 | 37
```

	Input	Expected	Got	
~	2004	Monkey	Monkey	~
~	2010	Tiger	Tiger	~

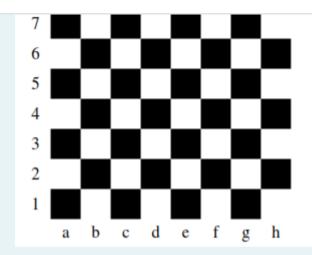
Passed all tests! ✓

Question 3

Correct

Marked out of 7.00

 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

The square is white.

**Answer:** (penalty regime: 0 %)

```
1 #include <stdio.h>
2
   int main()
3 •
        char c;
        int r;
        scanf("%c%d",&c,&r);
        if((c)='a' \&\& c<='n') \&\& (r>=1 \&\& r<=8))
        {if((c-'a')%2==r%2){
8 •
            printf("The square is white.");
 9
        }else{
10 🔻
            printf("The square is black.");
11
12
13
        }return 0;
14 }
```

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

Finish review