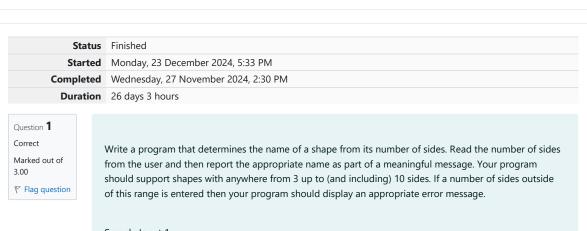
GE23131-Programming Using C-2024





Sample Input 1 Sample Output 1 Triangle Sample Input 2 Sample Output 2 Heptagon Sample Input 3 11 Sample Output 3 The number of sides is not supported. Answer: (penalty regime: 0 %) #include<stdio.h> int main() 3 , int n;
scanf("%d",&n); 4 5 switch(n)

```
8
            printf("Triangle");
10
            break;
            case 4:
11
            printf("Rectangle");
12
13
            break;
14
            case 5:
15
            printf("Pentagon");
16
            break:
            case 6:
17
            printf("Hexagon");
18
19
            break;
20
            case 7:
21
            printf("Heptagon");
22
            break;
23
            case 8:
            printf("Octagon");
24
25
            break;
26
            case 9:
27
            printf("Nonagon");
```

```
28
             break;
29
             case 10:
30
             printf("Decagon");
31
             break;
             default:
printf("The number of sides is not supported.");
32
33
34
35
        return 0;
36
37
38
39
```

✓ 3 ✓ 7 ✓ 1		angle	Triangle	~
,	7 Hep	tagon	Hantagan	
v 1		ŭ	Heptagon	~
	11 The	The number of sides is not supported. The number of sides is not supported.		~

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

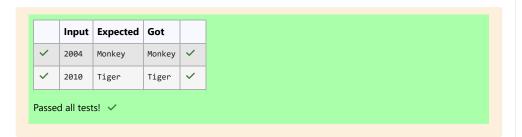
Sample Input 2

2010

Sample Output 2

Tiger

Answer: (penalty regime: 0 %) #include<stdio.h> int main() 2 3 , 4 int y,r; 5 scanf("%d",&y); 6 r = (y-2000)%12;7 **if**(r<0) 8 9 r+=<mark>12</mark>; 10 switch(r) 11 12 { case 0: 13 14 printf("Dragon"); break; 15 16 case 1: 17 printf("Snake"); 18 break; 19 case 2: 20 printf("Horse"); 21 break; 22 case 3: 23 printf("Sheep"); 24 break; 25 case 4: 26 printf("Monkey"); 27 break; 28 case 5: 29 printf("Rooster"); 30 break; 31 case 6: 32 printf("Dog"); 33 break; 34 case 7: 35 printf("Pig"); break: 36 37 case 8: printf("Rat"); 38 39 break; 40 case 9:



Question **3**Correct
Marked out of 7.00

41

42

43

44 45

46

47

48

49

50 51 52 printf("0x");

printf("Hare");

printf("Invalid year");

break;

break;

break;

return 0;

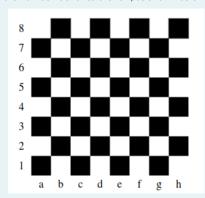
case 11:

default:

case 10:
printf("Tiger");

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

u i

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 %)

```
#include<stdio.h>
int main()

{
4
         int num ,sum;
         char a;
scanf("%c %d",&a,&num);
5
6
         sum=a+num;
if(sum%2==0)
7
8
9 ,
             printf("The square is black.");
10
11
12
         else
13 🔻
14
             printf("The square is white.");
15
16 }
```

	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! ✓