Finished Status Started Monday, 23 December 2024, 5:33 PM **Completed** Saturday, 23 November 2024, 12:29 PM Duration 30 days 5 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 %) #include<stdio.h> 1 2 int main() 3 • { 4 int n; scanf("%d",&n); 5 6 if(n==3)printf("Triangle"); 7 else if(n==4) 8 printf("Quadrilateral"); 9 10 else if(n==5) printf("Pentagon"); 11 12 else if(n==6) printf("Hexagon"); 13 else if(n==7) 14 printf("Heptagon"); 15 16 else if(n==8) printf("Octagon"); 17 18 else if(n==9) printf("Nonagon"); 19 else if(n==10) 20 printf("Decagon"); 21 22 else printf("The number of sid 23 24 return 0; 25 } 26 Input **Expected** 3 Triangle 7 Heptagon The number of sides is no 11 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. **Animal** Year 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> 1 int main() 2 3 ▼ { 4 int year; 5 scanf("%d",&year); 6 int a= year%12; switch (a) 7 8 { 9 • case 0: { printf("Monkey"); 10 11 break; 12 } 13 • case 1:{ printf("Roaster"); 14 15 break;} case 2:{ **16** ▼ printf("Dog"); 17 18 break;} 19 • case 3:{ printf("Pig"); 20 21 break; } 22 • case 4:{ printf("Rat"); 23 24 break;} 25 • case 5:{ printf("0x"); 26 27 break;} 28 • case 6:{ 29 printf("Tiger"); 30 break;} 31 • case 7:{ printf("Hare"); 32 33 break;} 34 ▼ case 8:{ printf("Dragon"); 35 36 break;} **37 ▼** case 9:{ printf("Snake"); 38 39 break;} 40 ▼ case 10:{ printf("Horse"); 41 42 break;} 43 44 return 0; 45 } 46 47 48 **Expected** Input 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: 8 6 5 4 2 1 b d f h g 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 %) #include<stdio.h> 1 2 int main() 3 • { 4 int a; 5 char b; scanf("%c %d",&b,&a); 6 **if**(((b=='a'||b=='c'||b== 7 8 printf("The square is 9 10 } else{ 11 ▼ printf("The square is wh: 12 13 14 return 0; 15 } 16 17 **Expected** Input Go a 1 The square is black. The d 5 The square is white. The Passed all tests! < Finish review Quiz navigation Show one page at a time

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