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Week 4: Assignment 4

The due date for submitting this assignment has passed.

Due on 2021-09-01, 23:59 IST.

Assignment submitted on 2021-08-31, 06:07 IST

1) What is the magic constant or magic sum of a magic square of size 11? ***1 point***

- (•) 671
- ( ) 121
- ( ) It is not possible to find
- ( ) Magic squares only exists for even size

Yes, the answer is correct.
Score: 1
Accepted Answers:
671

2) In magic square, the first number will be stored at position (n/2, n-1). Let this position be (i, j). The second number will be stored at position (i+1, j-1). State whether the following statement is true or false. ***1 point***

- ( ) True
- (•) False

Yes, the answer is correct.
Score: 1
Accepted Answers:
False

3) The below given matrix is a magic square. State whether the following statement is true or false ***1 point***

20	12	4	45	37	29	28
11	3	44	36	35	27	19
2	43	42	34	26	18	10
49	41	33	25	17	9	1
40	32	24	16	8	7	48
31	23	15	14	6	47	39
22	21	13	5	46	38	30

- ○ False
- ◉ True

Yes, the answer is correct.
Score: 1
Accepted Answers:
True

4) What will the output of the following program be? ***1 point***

```
l=[31, 0, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31]
a=1900
if(a%4==0 and a%100!=0 or a%400==0):
    l.insert(1,29)
else:
    l.insert(1,28)

print("In the year 1900, february has",l[1],"days")
```

- ◉ In the year 1900, february has 28 days
- ○ In the year 1900, february has 29 days
- ○ In the year 1900, february has 0 days
- ○ It will throw an error

Yes, the answer is correct.
Score: 1
Accepted Answers:
In the year 1900, february has 28 days

5) Consider today's date to be 06-06-2021 and the day after tomorrow is tuesday.. What will be the output of the following program? ***1 point***

```
import datetime
x=datetime.datetime.now()
print(x.strftime("%W"))
print(x.strftime("%W"))
```

- 22
  0
- 0
  22
- Monday
  29
- 29
  Tuesday

Yes, the answer is correct.
Score: 1
Accepted Answers:

22
0

6) What will the following program do? ***1 point***

```
a=input("Enter any positive number\n")
p=int(a)
sum=0
while(p!=0):
    sum=sum+p%10
    p//=10

print(sum)
```

- Print the sum of digits of a given number
- Print the number by dividing it by 10

Print the reverse of the number

None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Print the sum of digits of a given number

7) Which program will choose an element from the below list and display it in jumbled order? ***1 point***

```
import random
l=["abc","cde","efg","hij"]
a=random.choice(l)
print("".join(random.sample(a,len(a))))
```

```
l=["abc","cde","efg","hij"]
a=random.choice(l)
print("".join(random.sample(a,len(a))))
```

```
import random
l=["abc","cde","efg","hij"]
a=random.Random(l)
print(a)
print("".join(random.sample(a,len(a))))
```

October 10 Programming test - Session 2 (8PM to 9PM)

```
import random
l=["abc","cde","efg","hij"]
a=random.sample(l)
print(a)
print("".join(random.choice(a,len(a))))
```

Yes, the answer is correct.
Score: 1

Accepted Answers:

```
import random
l=["abc","cde","efg","hij"]
a=random.choice(l)
print("".join(random.sample(a,len(a))))
```

8) There are a total of 100 cards of 25 different colors. How many minimum numbers of draws are required to guarantee that at least two drawn cards have the same color? ***1 point***

- 100
- 26
- 25
- 50

Yes, the answer is correct.
Score: 1

Accepted Answers:
26

9) What does the following code snippet in python compute? ***1 point***

```
a=0
b=1
print(a,end=" ")
for i in range(0,15,1):
    print(b,end=" ")
    a,b=b,a+b
```

- Factorial of numbers from 0 to 15
- Fibonacci series
- None
- Sequence of numbers from 0 to 15

Yes, the answer is correct.
Score: 1

Accepted Answers:
Fibonacci series

10) Dobble game has a deck of 55 cards, each printed with eight different symbols. Any two cards always share one matching symbol only. State whether the above statement is true or false ***1 point***

- True
- False

Yes, the answer is correct.
Score: 1

Accepted Answers:
True