



Date : 16th Dec 2023

Logical Reasoning - Floor Puzzle

English

Direction 1 - 5 : Read the given information carefully and answer the following questions.

Seven friends D, S, Q, A, W, L, and P live on seven different floors of a building. The topmost floor is numbered 7 and the bottommost floor is numbered 1. Four people live between D and Q, who neither lives on the topmost nor the bottommost floor. L lives one floor below Q. A lives on a floor immediately above D, who lives two floors below W. Nobody lives between L and P.

Q:1 Who lives immediately above Q?

1. W
2. S
3. D
5. L

Q:2 How many people live above W?

1. 4
2. 1
3. 2
5. 6

Q:3 How many persons live between A and L?

1. 2
2. 1
3. 0
5. 5

Q:4 Who lives on floor 4?

1. P
2. S
3. Q
5. A

Q:5 Who lives on floor 6?

1. D
2. Q
3. S
5. A

Direction 6 - 10 : Read the given information carefully and answer the following questions. Seven floors of the building have seven theatres displaying seven movies, one each on one floor. The ground floor is numbered as 1, the first floor is numbered as 2, and so on. The movies are Frozen II, Avatar, Avengers, Iron Man, Doctor Strange, Thor,

and Captain America, but not necessarily in the same order.

Avatar is running on floor number four, and Thor is not running on the top floor. There is one floor between the floor on which Captain America is running and the floor on which Doctor Strange is running, and they are both running on an odd number of floors. Doctor Strange runs below Captain America, which doesn't run on the topmost floor. Iron Man is running on an odd number floor just above the floor on which Avengers is running. Thor runs on a floor above Frozen II but not on floor number 5.

Q:6 Pick the odd one out.

1. Iron Man
2. Captain America
3. Frozen II
5. Doctor Strange

Q:7 Which movie is running just below the floor on which movie Thor is running?

1. Doctor Strange
2. Frozen II
3. Avengers
5. None of the above

Q:8 How many floors are below the floor on which the Captain America movie is running?

1. Two
2. Three
3. Four
5. Five

Q:9 On which floor Thor is running?

1. Second
2. First
3. Third
5. Fifth

Q:10 Which movie is running on the topmost floor?

1. Frozen II
2. Thor
3. Iron Man
5. Doctor Strange



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Answer Key

1. (2)	2. (1)	3. (1)	4. (1)	5. (2)
6. (4)	7. (2)	8. (3)	9. (1)	10. (3)

Answers and Solutions

Q:1 The correct answer is **Option 2** i.e. **S**

Let's solve the puzzle:

Four people live between D and Q, who neither lives on the topmost nor the bottommost floor.
(This means Q lives on floor 6 and D lives on floor 1.)

L lives one floor below Q. (L lives on floor 5.)

A lives on a floor immediately above D, who lives two floors below W. (This means A lives on floor 2 and W lives on floor 3)

Nobody lives between L and P. (This means P lives on floor 5.)

Only S is remaining so he lives on the topmost floor i.e. floor 7.

This is our final arrangement:

Floor	Person
7	S
6	Q
5	L
4	P
3	W
2	A
1	D

Clearly, S lives immediately above Q.
Hence, the correct answer is **S**.

Q:2 The correct answer is **Option 1** i.e. **4**

Let's solve the puzzle:

Four people live between D and Q, who neither lives on the topmost nor the bottommost floor.
(This means Q lives on floor 6 and D lives on floor 1.)

L lives one floor below Q. (L lives on floor 5.)

A lives on a floor immediately above D, who lives

two floors below W. (This means A lives on floor 2 and W lives on floor 3)

Nobody lives between L and P. (This means P lives on floor 5.)

Only S is remaining so he lives on the topmost floor i.e. floor 7.

This is our final arrangement:

Floor	Person
7	S
6	Q
5	L
4	P
3	W
2	A
1	D

Clearly, 4 people live above W.
Hence, the correct answer is **4**.

Q:3 The correct answer is **Option 1** i.e. **2**

Let's solve the puzzle:

Four people live between D and Q, who neither lives on the topmost nor the bottommost floor. (This means Q lives on floor 6 and D lives on floor 1.)

L lives one floor below Q. (L lives on floor 5.)

A lives on a floor immediately above D, who lives two floors below W. (This means A lives on floor 2 and W lives on floor 3)

Nobody lives between L and P. (This means P lives on floor 5.)

Only S is remaining so he lives on the topmost floor i.e. floor 7.

This is our final arrangement:

Floor	Person
7	S
6	Q
5	L
4	P

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3	W
2	A
1	D

Clearly, 2 persons live between A and L.
Hence, the correct answer is **2**.

Q:4 The correct answer is **Option 1** i.e. **P**

Let's solve the puzzle:

Four people live between D and Q, who neither lives on the topmost nor the bottommost floor.
(This means Q lives on floor 6 and D lives on floor 1.)

L lives one floor below Q. (L lives on floor 5.)

A lives on a floor immediately above D, who lives two floors below W. (This means A lives on floor 2 and W lives on floor 3)

Nobody lives between L and P. (This means P lives on floor 5.)

Only S is remaining so he lives on the topmost floor i.e. floor 7.

This is our final arrangement:

Floor	Person
7	S
6	Q
5	L
4	P
3	W
2	A
1	D

Clearly, P lives on floor 4.

Hence, the correct answer is **P**.

Q:5 The correct answer is **Option 2** i.e. **Q**

Let's solve the puzzle:

Four people live between D and Q, who neither lives on the topmost nor the bottommost floor.
(This means Q lives on floor 6 and D lives on floor 1.)

L lives one floor below Q. (L lives on floor 5.)

A lives on a floor immediately above D, who lives two floors below W. (This means A lives on floor 2 and W lives on floor 3)

Nobody lives between L and P. (This means P lives on floor 5.)

Only S is remaining so he lives on the topmost floor i.e. floor 7.

This is our final arrangement:

Floor	Person
7	S
6	Q
5	L
4	P
3	W
2	A
1	D

Clearly, Q lives on floor 6.

Hence, the correct answer is **Q**.

Q:6 The correct answer is **Option 4** i.e. **Thor**

1) Avatar is running on floor number four, and Thor is not running on the top floor.

2) There is one floor between the floor on which Captain America is running and the floor on which Doctor Strange is running, and they are both running on an odd number of floors.

3) Doctor Strange runs below Captain America which doesn't run on the topmost floor.

4) Iron Man is running on an odd number floor just above the floor on which Avenger is running.

Possibility 1

Floors	Movies
7	Iron Man
6	Avengers
5	Captain America
4	Avatar
3	Doctor Strange
2	
1	

Possibility 2

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Floors	Movies
7	Iron Man
6	Avengers
5	
4	Avatar
3	Captain America
2	
1	Doctor Strange

5) Thor runs on a floor above Frozen II but not on floor number 5.

Floors	Movies
7	Iron Man
6	Avengers
5	Captain America
4	Avatar
3	Doctor Strange
2	Thor
1	Frozen II

All the movies are running on odd-numbered floors except Thor, which is running on an even-numbered floor.

Hence, the correct answer is **Thor**.

Q:7 The correct answer is **Option 2** i.e. **Frozen II**

- 1) Avatar is running on floor number four, and Thor is not running on the top floor.
- 2) There is one floor between the floor on which Captain America is running and the floor on which Doctor Strange is running, and they are both running on an odd number of floors.
- 3) Doctor Strange runs below Captain America which doesn't run on the topmost floor.
- 4) Iron Man is running on an odd number floor just above the floor on which Avenger is running.

Possibility 1

Floors	Movies
7	Iron Man
6	Avengers
5	Captain America
4	Avatar
3	Doctor Strange
2	
1	

Possibility 2

Floors	Movies
7	Iron Man
6	Avengers
5	

4	Avatar
3	Captain America
2	
1	Doctor Strange

5) Thor runs on a floor above Frozen II but not on floor number 5.

Floors	Movies
7	Iron Man
6	Avengers
5	Captain America
4	Avatar
3	Doctor Strange
2	Thor
1	Frozen II

Frozen II movie is running just below the floor on which the movie Thor is running.

Hence, the correct answer is **Frozen II**.

Q:8 The correct answer is **Option 3** i.e. **Four**

- 1) Avatar is running on floor number four, and Thor is not running on the top floor.
- 2) There is one floor between the floor on which Captain America is running and the floor on which Doctor Strange is running, and they are both running on an odd number of floors.
- 3) Doctor Strange runs below Captain America which doesn't run on the topmost floor.
- 4) Iron Man is running on an odd number floor just above the floor on which Avenger is running.

Possibility 1

Floors	Movies
7	Iron Man
6	Avengers
5	Captain America
4	Avatar
3	Doctor Strange
2	
1	

Possibility 2

Floors	Movies
7	Iron Man
6	Avengers
5	
4	Avatar
3	Captain America
2	
1	Doctor Strange

5) Thor runs on a floor above Frozen II but not on floor number 5.

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Floors	Movies
7	Iron Man
6	Avengers
5	Captain America
4	Avatar
3	Doctor Strange
2	Thor
1	Frozen II

Four floors are below the floor on which the Captain America movie is running.
Hence, the correct answer is **Four**.

Q:9 The correct answer is **Option 1** i.e. **Second**

- 1) Avatar is running on floor number four, and Thor is not running on the top floor.
- 2) There is one floor between the floor on which Captain America is running and the floor on which Doctor Strange is running, and they are both running on an odd number of floors.
- 3) Doctor Strange runs below Captain America which doesn't run on the topmost floor.
- 4) Iron Man is running on an odd number floor just above the floor on which Avenger is running.

Possibility 1

Floors	Movies
7	Iron Man
6	Avengers
5	Captain America
4	Avatar
3	Doctor Strange
2	
1	

Possibility 2

Floors	Movies
7	Iron Man
6	Avengers
5	
4	Avatar
3	Captain America
2	
1	Doctor Strange

- 5) Thor runs on a floor above Frozen II but not on floor number 5.

Floors	Movies
7	Iron Man
6	Avengers
5	Captain America

4	Avatar
3	Doctor Strange
2	Thor
1	Frozen II

Thor is running on the second floor.
Hence, the correct answer is **Second**.

Q:10 The correct answer is **Option 3** i.e. **Iron Man**

- 1) Avatar is running on floor number four, and Thor is not running on the top floor.
- 2) There is one floor between the floor on which Captain America is running and the floor on which Doctor Strange is running, and they are both running on an odd number of floors.
- 3) Doctor Strange runs below Captain America which doesn't run on the topmost floor.
- 4) Iron Man is running on an odd number floor just above the floor on which Avenger is running.

Possibility 1

Floors	Movies
7	Iron Man
6	Avengers
5	Captain America
4	Avatar
3	Doctor Strange
2	
1	

Possibility 2

Floors	Movies
7	Iron Man
6	Avengers
5	
4	Avatar
3	Captain America
2	
1	Doctor Strange

- 5) Thor runs on a floor above Frozen II but not on floor number 5.

Floors	Movies
7	Iron Man
6	Avengers
5	Captain America
4	Avatar
3	Doctor Strange
2	Thor
1	Frozen II

Iron Man movie is running on the topmost floor.
Hence, the correct answer is **Iron Man**.