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The Question Bank

3. How many persons live above I?

- A. 2 B. 6 C. 5
D. 4 E. None of these

4. Who lives at the floor number which is equal to the sum of the floor numbers where H and the one who owns Apple live?

- A. B B. E C. A
D. D E. The sum exceeds the number of floors

5. Who owns the OPPO?

- A. D B. G C. A
D. E E. I



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Correct answer:

1	2	3	4	5
D	A	B	C	D

Common Explanation:

Reference:

C lives on the floor number which is a perfect square.

The one who has Micromax phone lives just above E, who lives at the lowermost floor.

Inference:

Following two cases are possible with the given hints.

Floor number	Case-1		Case-2	
	Persons	Mobile phone brands	Persons	Mobile phone brands
9	C			
8				
7				
6				
5				
4			C	
3				
2		Micromax		Micromax
1	E		E	

Reference:

D lives at an odd numbered floor above 5 and owns Lenovo.

G owns Samsung and is adjacent to the one who owns Lenovo.

The one who owns Apple lives three floors below the one who owns Samsung.

Inference:

The case splits into further cases as shown below.

Floor number	Case-1		Case-1A	
	Persons	Mobile phone brands	Persons	Mobile phone brands
9	C		C	
8	G	Samsung		
7	D	Lenovo	D	Lenovo
6			G	Samsung
5		Apple		
4				
3				Apple
2		Micromax		Micromax
1	E		E	

Floor number	Case-2		Case-2A		Case-2B	
	Persons	Mobile phone brands	Persons	Mobile phone brands	Persons	Mobile phone brands
9					D	Lenovo
8	G	Samsung			G	Samsung
7	D	Lenovo	D	Lenovo		
6			G	Samsung		
5		Apple				Apple
4	C		C		C	
3				Apple		
2		Micromax		Micromax		Micromax
1	E		E		E	

Reference:

B lives immediately below the one who owns Vivo phone.

The one who owns Vivo phone lives on an odd numbered floor.

There are four floors between the floors on which the one who owns Oppo and B live.

B does not own Micromax phone.

Inference:

The case splits into further cases as shown below.

Floor number	Case-1		Case-1A	
	[Eliminated] Last hint violated			
	Persons	Mobile phone brands	Persons	Mobile phone brands
9	C		C	Oppo
8	G	Samsung		
7	D	Lenovo	D	Lenovo
6			G	Samsung
5		Apple		Vivo
4			B	
3		Vivo		Apple
2	B	Micromax		Micromax
1	E		E	

Floor number	Case-2		Case-2A		Case-2B	
	[Eliminated] Last hint violated		[Eliminated] Third hint violated			
	Persons	Mobile phone brands	Persons	Mobile phone brands	Persons	Mobile phone brands
9				Vivo	D	Lenovo
8	G	Samsung	B		G	Samsung
7	D	Lenovo	D	Lenovo		Vivo
6			G	Samsung	B	
5		Apple				Apple
4	C		C		C	
3		Vivo		Apple		
2	B	Micromax		Micromax		Micromax
1	E		E		E	Oppo

Thus we are left with two cases only i.e. Case-1A and Case-2B.

Reference:

F and the one who owns Microsoft are adjacent to C where F is above C.

B lives three floors above I.

C does not own MI.

A lives above H.

Inference:

With the first hint, Case-1A gets eliminated thus, we are left with Case-2B only.

As C doesn't own MI, thus B have to own it. Thus B will have MI and C will own the only left phone brand i.e. Sony.

Floor number	Case-2B		Case-1A	
			[Eliminated] First hint violated	
	Persons	Mobile phone brands	Persons	Mobile phone brands
9	D	Lenovo	C	Oppo
8	G	Samsung		
7		Vivo	D	Lenovo
6	B	MI	G	Samsung
5	F	Apple		Vivo
4	C	Sony	B	
3	I	Microsoft		Apple
2		Micromax		Micromax
1	E	Oppo	E	

As per the last hint, A must live at floor number 7 and H at floor number 2.

Floor number	Case-2B	
	Persons	Mobile phone brands
9	D	Lenovo
8	G	Samsung
7	A	Vivo
6	B	MI
5	F	Apple
4	C	Sony
3	I	Microsoft
2	H	Micromax
1	E	Oppo

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Explanation:

1. There are 4 floors in between D and the one who owns Sony.

Hence option D is correct.

2. A owns Vivo.

Hence option A is correct.

3. 6 persons live above I.

Hence option B is correct.

4. The one who owns Apple lives at floor number 5 and H lives at floor number 2, so the sum is 7, which is the floor number of A.

Hence option C is correct.

5. E owns Oppo.

Hence, option D is correct.

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