

DSA :-

What is Array :-

Array is Linear Data Structure. which store value in continuous way of the same type of data. Each Element can be accessed using Indexes, starting from 0

finding the first even no in an array.

```
int[] arr = {2, 4, 9, 23, 41, 15};
for (int i = 0; i < arr.length; i++)
{
  if (arr[i] % 2 == 0)
  {
    cout << arr[i];
    break;
  }
}
```

O/p = 2

MERN STACK :-

What is MERN.

Stack Part	Technology	Role
M	MongoDB	Database
E	Express.js	Server-side Framework
R	React.js	Frontend UI
N	Node.js	Javascript Backend runtime

Steps MERN Stack Set-Up :-

1. Create a folder in computer
2. Open that folder in VS code
3. Initialize Node.js Project [npm init -y]
4. Install Express.js [npm install express]
5. Create a Server.js file inside the folder

Date _____
Page _____

I've built multiple projects using these technologies - including a Tic Tac Toe game & a DevFinder app.

One of my key strengths is punctuality & the ability to stay focused on tasks. I'm excited about opportunities where I can continue learning & contribute as a full-stack developer in top company like - - - - -."

Apptitude

Numbers System Divisibility & Remainders

Concept: Divisibility Rules (Quick Tricks)

Number	Divisible If
2	last digit is even (0, 2, 4, 6, 8)
3	sum of digits divisible by 3.
4	last 2 digits divisible by 4.
5	last digit is 0 and 5
6	Divisible by both 2 and 3.
8	last 3 digits divisible by 8.
9	sum of digits divisible by 9.
11	Alternating sum of digits divisible by 11.

Q. Is 438 divisible by 3 and 9?

- sum of digits $4+3+8 = 15$
- 15 is divisible by 3
- 15 is not divisible by 9.

Ans: 438 is not divisible by 9 but only 3.

Add Sample code

```
const express = require('express');  
const app = express();
```

```
app.get('/', (req, res) => {  
  res.send('Server is running');  
});
```

```
const PORT = 5000;
```

```
app.listen(PORT, () => {  
  console.log(`Server is running on port ${PORT}`);  
});
```

6. Run Your Server [node server.js]

Output: Server is running on port 5000

Go to your Browser & visit

"http://localhost:5000/"

Output: Server is running

Behavioral Interview Prep

Tell me About Yourself...

"Hello, my name is Snehlata, I recently completed my B.Tech in Computer Science from Radhakrishnan Institute of Technology & Science with a CGPA of 8.56. I'm currently preparing for a MERN Stack development position, I also have experience with Java, HTML, CSS, JavaScript.

Q. find Remainder, when 43 is divided by 5?

$$43 \div 5 = 8 \times 5 = 40$$

$$43 - 40 = 3$$

Ans: Remainder = 3.

Q. Is 846 divisible by 2, 3 & 6?

- Sum: $8 + 4 + 6 = 18$

- Divisible by: $2\checkmark$; $3\checkmark$; $6\checkmark$

Ans: 846 is divisible by 2, 3, 6.

Q. What is the remainder of $97 \div 6$?

- $97 \div 6 = 16 \times 6 = 96$

- $97 - 96 = 1$

Ans: remainder is 1.

Q. Is 6785 divisible by 5?

- Sum: $6 + 7 + 8 + 5 = 26$

- 26 is not divisible by 5.

Ans: 6785 is not divisible by 5.

- Last digit is 5

Ans: divisible by 5.