String function → "stoi " uses

Q Goal of the Code:

 \leftarrow From an array of strings representing numbers (some with leading zeroes), find the **largest number** $\underline{\mathbb{Y}}$ — and also show the original string form! $\underline{\mathbb{H}}$

📦 Step-by-Step Breakdown:

1. The Setup

```
string arr[]={"0123","0023","456","00182","940","2901"};
```

- 📦 An array of strings looks like numbers but with leading zeroes 🚦
- Fxample: "0123" is the same as 123

2. Convert First Element

```
int max=stoi(arr[0]);
string maxS=arr[0];
```

- 🎯 stoi() converts a string into an integer 🏢
- ★ We set the first number as our starting maximum!

2 3. Loop to Find the Max

```
for(int i=1;i<=5;i++){
  int x=stoi(arr[i]);
  if(x>max){
    max=x;
    maxS=arr[i];
```

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```
}
```

- We go through each element (from index 1 to 5):
- Convert string to number using stoi()
- 2 Compare with current max
- If it's bigger, update both:
 - max + the number
 - maxs + the original string
- Smart! You preserve the string version, not just the number.

4. Final Output

```
cout<<max<<endl;
cout<<max<<endl;
```

- This will print:
- 1. The original string (with leading zeroes if any)
- 2. The actual max number (without leading zeroes)

Example Output

Given:

```
{"0123","0023","456","00182","940","2901"}
```

Output:

29012901

Small Fix Alert!

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```
for(int i=1;i<=5;i++)
```

- ♠ Works here because array has exactly 6 elements
- ▼ Better & safer:

```
for(int i=1;i<6;i++)
```

or ideally:

```
int n = sizeof(arr)/sizeof(arr[0]);
for(int i=1; i<n; i++)</pre>
```

▼ Final Takeaway

This code teaches you how to:

- C Loop through string arrays
- Convert strings to numbers (stoi)
- Track max values
- Is Keep both number and string versions

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