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Assignment - 7

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Leetcode Problem:

CSA0220 - C programming
for Reasoning

12-2-2026

Problem Name:-

Plus one

Description:-

Give an array representing a non-negative integer,
add one to it.

Ans:

```
#include <stdio.h>
```

```
int main() {
```

```
    int arr[100], n, i;
```

```
    printf("Enter no. of digits: ");
```

```
    scanf("%d", &n);
```

```
    printf("Enter digits: \n");
```

```
    for (i=0; i<n; i++)
```

```
    {
```

```
        scanf("%d", &arr[i]);
```

```
    }
```

```
// Add one from last digit
```

```
for (i=n-1; i>=0; i--) {
```

```
    if (arr[i] < 9) {
```

```
        arr[i] += 1;
```

```
        break;
```

10
10

6

```

    } else {
        arr[i] = 0;
    }
}

```

// If all digits were 9 (like 999)

```

if (i == 0) {
    printf("1");
    for (i = 0; i < len; i++)
        printf("0");
} else {
    for (i = 0; i < len; i++)
        printf("%d", arr[i]);
}
return 0;
}

```

<u>Input:</u>	1 2 3
<u>Output:</u>	1 2 4

