

# Master “C Language” in 30 Days Challenge

Day 16

By TECH INVOLVERS

## **Instructions:**

- Read the problem carefully before trying to solve it.
- Do the tasks on your own. Don't copy it.
- The output of your program must be same as given in sample run.

## **Problem 1:**

Predict whether the below pointer definitions are valid or not and explain each definition with a line in a text file.

```
double dval;
```

```
double *pd=&dval;
```

```
double *pd2=pd;
```

```
int *pi=pd;
```

```
int *p3=0;
```

```
const double pi =3.14;
```

```
const double *ptr=&pi;
```

```
double *ptr1=&pi;
```

```
int i=123;
```

```
int *const ptr2=&i;
```

```
float *const ptr3;
```

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```
const int z =123;  
const int *const ptr5=&z;  
const int y =count();  
(count is function that returns integer value)
```

**Fun Fact** *const objects must be initialized at compile time or at run time.*

## Problem 2:

Write a function in C that calculates the 1's complement of input binary string(arr is character array consisting of binary numbers(0 and 1) only having size n).

```
void one_complement(char *arr, char *res, int n)  
{  
  
    // store the 1's complement of arr in res  
  
}
```