

ogical Reasoning:

1. 3 types of chickens: Baby chickens cost 5 cents, hen chickens cost 3 dollares, rooster chickens cost 5 dollars. Buy 100 chickens for 100 dollars.How many will you have from each?

2. Calculate :  $(x-a)(x-b)(x-c)....(x-z)$ ?

3. What is the day after 4 days after 2 days before the day before tomorrow?

4. 2 trains each of length 1 mile enter into 2 tunnels of lenth 1 mileand 2 miles apart. speed if trains are 5 and 10 miles/hr. Give the postion as viewed by a helicopter when the trains meet?

5. A says I'm not guilty

B says C is not guilty

C says A is not guilty

If all above are true.(i) Can we say anyone is guilty/innocent?

(ii)Who is most likely to be guilty?

6. 18 story building - Accountant's office is 5 times the lawyer's office.

Architects office 2 floors up then he is halfway between Dentist's & Accountant's office. Architects office halfway down means betweenDentist's and Lawyer's office. Give the order

7. How many tennis matches are to be arranged to conduct a tournament with 213 players?

8. In a family 7 children don't eat spinach, 6 don't eat carrot, 5 don't eat beans, 4 don't eat spinach & carrots, 3 don't eat carrot & beans, 2 don't eat beans & spinach. 1 doesn't eat all 3. Find the no. of children.

C/C++

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a. void main()

```
{
char a[6] = "INDIA";
while(*a)
{
printf("%c",*a);
a++;
}
}
```

1. india 2. I N D I A 3. no output 4. error 5.Null

b. protected derivation

c. int m = 10;

main()

```
{
int m = 20;
{int m = 30;}
printf("%d %d",m,::m);
}
```

1. 10 10 2. 10 20 3. 20 10 4. 20 30 5. 30 20 6. None

d. inline function is used to

1. reduce program size

2. reduce memory size

e. void func(float newtotal)

```
{ newtotal = newtotal-2;
}
```

main()

```
{
float tot = 100.34;
float sum = tot;
}
```

```
sum++;
func(sum);
cout<
}
```

1. 100.34 2. 99.34 3. 101.34 4. 102.34 5. None

```
f. unsigned char snapnib(unsigned char misc)
{
    int aloha, hamalo;
    hamalo = aloha = misc;
    misc = (hamalo << 4) + ((aloha & 0x0f) >> 4);
    return(misc);
}
main()
{
    int getinp;
    unsigned char getmisc;
    scanf("%x",&getinp);
    getmisc = snapnib(getinp & 0xff);
    printf("%x",getmisc);
}
```

1. Change line 4 to misc = (hamalo >> 4) + ((aloha & 0x0f) << 4);  
 2. remove the 5  
 3. Change line 4 to misc = (hamalo >> 4) + ((aloha & 0x0f) << 4);  
 4. Change line 11 to getmisc = snapnib(getinp);  
 5. Nothing

```
g. main()
{
    int getinp = 6;
    while(--getinp)
    {
        printf("%d",getinp);
        if(getinp++ != 3);
        else
            break;
        if(getinp-- != 5)
            continue;
        else
            getinp = getinp - 2;
    }
}
```

1. 5421 2. 5420 3. 541 4. 6543 5. 5410

```
h. unsigned char inn[2] = "5";
int i,j = 0;
sscanf(inn,"%d",&i);
while(i)
{
    i = i - 1;
    j++;
    printf("%d",++j);
}
```

1. 14 2. 12 3. 24 4. 35 5. none

```
i. char *fn(int num)
{
    char a[] = "Amen";
    return(&a[num]);
}
main()
{
    int i;
    char *prechar;
    scanf("%d",&i);
```

```
(input is 12)
prechar = fn(i);
printf("%c",*prechar);
}
```

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