

AMI Logical Reasoning, C, C++ Placement Paper

Q1. 3 types of chickens: Baby chickens cost 5 cents, hen chickens cost 3 dollars, rooster chickens cost 5 dollars. Buy 100 chickens for 100 dollars. How many will you have from each?

Q2. Calculate : $(x-a)(x-b)(x-c)....(x-z)$?

Q3. What is the day after 4 days after 2 days before the day before tomorrow?

Q4. 2 trains each of length 1 mile enter into 2 tunnels of length 1 mile and 2 miles apart. speed of trains are 5 and 10 miles/hr. Give the position as viewed by a helicopter when the trains meet?

Q5. A says I am 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?

Q6. 18 story building - Accountants office is 5 times the lawyers office. Architects office 2 floors up then he is halfway between Dentists & Accountants office. Architects office halfway down means between Dentists and Lawyers office. Give the order

Q7. How many tennis matches are to be arranged to conduct a tournament with 213 players?

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Q8. In a family 7 children dont eat spinach, 6 dont eat carrot, 5 dont eat beans, 4 dont eat spinach & carrots, 3 dont eat carrot & beans, 2 dont eat beans & spinach. 1 doesnt eat all 3. Find the no. of children.

C/C++

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;
```

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```
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<
```