

ZOHO INTERVIEW QUESTIONS

I Round

1. Father told his son “I was as old as you at present when you were born. If father’s present age is 38, what is his son’s age 5 years back?
2. In a jungle a man was at one end of the jungle. He has to give a 2 pieces of cake to his friend who was at the other end of the jungle. There were 7 bridges on the way with 7 gatekeepers. Each gatekeeper will take half of the cake he has and will give one piece back to him. How many cakes should the man carry initially?
3. Gunal is a strange liar. He lies on 6 days of the week but he tells the truth on the 7th day. Consider the following statements
Day 1: I lie on Monday and Tuesday
Day 2: Today is Thursday, Saturday or Sunday
Day 3: I lie on Wednesday and Friday
Which day does he speak the truth?
- 4) I want to select the fastest three horses out of 25 horses. You can test only 5 horses at a time because there are only 5 tracks. You do not have a stopwatch. How many minimum number of races will you conduct to pick them?
- 5) A number when divided by 3 leaves a remainder 1, when by 4 leaves a remainder 2, when by 5 leaves a remainder 3, when by 6 leaves a remainder 4. what is the smallest number that satisfies the condition?

Section II – C aptitude

1)

```
int main()
{
printf(“%s %s”,(“Zoho” “corp”), (“Campus” ”corpp”),(“Zoho” “Corporation”);
}
```

2)

```
int main()
{
int x=3,y=4,z=4;
printf(“ans=%d\n”,(z>=y>=x?100:200));
return 0;
}
```

3)

```
int main()
{
    struct num
    {
        int n1:2;
        int n2:3;
        int n3:4;
    } num{3,4,5};
    printf("%d%d%d\n",num.n1,num.n2,num.n3);
}
```

4)

```
unsigned int i=650000;
while(i++!=0)
{
    printf("%d",i);
}
```

5) int main

```
{
    sum=0;
    int l,j;
    for(i=0;i<=1000;i*=2)
    {
        for(j=1;j<l;j++)
        {
            sum++;
        }
        printf("%d",sum);
    }
}
```

6.

```
for(int i=0;i++;printf("%d",i));
printf("%d",i);
```

7.

```
int a=0,b=0;
if(a++&& b++)
printf("%d%d",a,b);
else
printf("great");
```

8. enum SWITCH{off,on};

```
main()
{
    enum SWITCH s= on;
    printf("size of enumeration %d \n", sizeof(enum SWITCH));
    printf("size of object s is %d \n", sizeof(s));
}
```

II ROUND

1. Given a set of elements as an array find the median of the array.
Median is the value which separates the higher indexes from the lower indexes.
E.g.: input = [1, 2, 3] output = 2; input = [1, 2, 3, 4] output = 2.5
2. Given a set of strings find the first occurrence of a string
E.g.: input = [AL, AL, GH, F, GH, PK] output = F
3. Given an array of numbers find a subset from the array such that the average for the whole set of numbers should equal the average of the numbers in the subsets deduced from the main array.
E.g.: input = [10, 20, 30, 40] output = [20, 30] [10, 40]
Input = [20, 40, 60] output = [40] [20, 60]
4. Implement a LRU (Least Recently Used) cache of size 10.
 - There must be a key and value for each element in cache
 - There must be two functions get (key) and put (key, value)
 - When trying to add after 11th element the least recently accessed element should be replaced.

III ROUND

Implement a dictionary which can store words in sequential order of occurrence. Implement an efficient data structure so that the search for elements must be fast even if there is a presence of one lakh words.

The input will be a paragraph from which the program has to find misspelled words and provide a near match to the word present in the dictionary.

Sample dictionary:

A

An

Apple

Away

Ball

Cat

Day

Doctor

Keeps

The

Sample Paragraph:

An Apple A Day Keeps The Dctor Away

Output:

Suggested word for Dctor is Doctor