ZOHO 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 reminder 1, when by 4 leaves a

reminder 2, when by 5 leaves a reminder 3, when by 6 leavesa reminder 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

{

i nt 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 inti=650000;

while(i++!=0)

{

printf(“%d”,i);

}

5) int main

{

sum=0;

int I,j;

for(i=0;i<=1000;i\*=2)

{

for(j=1;j<I;j++)

{

sum++;

}

printf(“%d”,sum);

}

6.

for(int i=0;i++;prinf(“%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));

}

ROUND 2:

GROUP 1(5 QUESTIONS):

1. Create a data structure to display the median in a given set of numbers.

Sample input: 2, 3,4,5,6 Sample output: median = 4

Sample input: 2, 3, 4,6,7,8 Sample output: median = ((4+6)/2)

1. Display the first unique element in a given array that contains both unique and duplicate elements.

Sample input: ff, tt, ff, ch, tt, gh

Sample output: ch

1. Divide the given array into two arrays such that both arrays have equal averages

Sample input: [2 4 8 10 16] Sample output: [8] and [2 4 10 16]

Sample input: [2 4 8 10] Sample output: [4 8] and [2 10]

1. In the given array, traverse from left to right replacing the first element with the next greater number present to its right. If no greater number to its right is found, then replace the remaining numbers with -1.

Sample input = [2 4 8 90 77 54 ] Sample output: [4 8 54 -1 -1 -1]

1. You are provided with a set of keywords. For a given input whenever a keyword is encountered, mark it as “Most used”. If the keyword is not present in the given input then, replace it with the data in the input and mark it as “Least used”. When all the keywords are either “Most used” or “Least used”, start replacing the first keyword whenever a new data is encountered in the input.

Explanation:

Keyword set = [2 4 8 9]

When 2 is entered from the keyboard, the keyword 2 is marked as “Most used”. Similarly, when 8 and 9 are entered, they are marked as “Most used”.

When 7 is entered, then from the keyword set 4 is replaced with 7 and is marked as “Least used”. This process continues till all the elements are either marked as “most used” or “Least used” and from then on the replacements starts with the first number.

GROUP 2(10 LOGICAL QUESTIONS + 2 PROGRAMS):

PROGRAMS:

1. Divide the given array into two arrays such that both arrays have equal averages

Sample input: [2 4 8 10 16] Sample output: [8] and [2 4 10 16]

Sample input: [2 4 8 10] Sample output: [4 8] and [2 10]

1. Two sorted arrays are given as inputs. Write a program to print an array that merges the two sorted arrays and itself is also sorted.

Sample input: array 1 = [1 5 7 9 15] array 2 = [3 6 10 11 13]

Sample output : array 3 = [1 3 5 6 7 9 10 11 13 15]

ROUND 3 PROGRAM:

Find the misspelt word in the given input paragraph, and give a suggestion for the misspelt words. Create a data structure that will work effectively even if one lakh words are present in the dictionary.