

ZOHO Preparation

1.Written Round-----

2.Programming Round-----

3.Advanced Programming Round-----

4.Technical HR-----

5.General HR-----

In this guide I walk through a interview preparation of zoho .it may help you to land your job in your dream company . maximum of product based companies that are located in Chennai have follow interview process like this.

This material is NOT provided by Zoho.

This is a third party preparation with a help of internet Sources . I like to explore the model of zoho interview.

Following question may or may not ask in interview .this is under your personal risk no one will responsible for this.

1.Written Round :

Usually it contains 15 technical c questions and 15 general aptitude . but now we are only focus on c aptitude .

Total 20 question

Pointers	Increment operator
String	Decrement operator
Loops	Printf statement
Arrays	Recursion

Question as follows:

1.how many times zoho will print?

```
int main(){  
    int i=1024;  
    for( ; i; i>>=1)  
        printf(" zoho ");  
    return 0;  
}
```

Ans: 11 times

2.what is the out put?

```
int main(){  
    int n;  
    for(n=9;n!=0;n--)  
        printf("n = %d",n--);  
    return 0;  
}
```

Ans: infinite loop

3.what will be the output of this snippet

```
Int main(){  
    Int c=5,no=10;  
    do{  
        no/=c;  
    }while(c--);  
    printf("%d\n",no);  
    return 0;  
}
```

Ans:nothing will print

4. what will be the output of this snippet

```
Int main(){  
    Int i=3;  
    While(i--){  
        Int i=100;  
        i--;  
        printf("%d",i);  
    }  
    return 0;  
}
```

Ans : 99 99 99

5.what will be the output of the following snippet

```
Int main(){  
    char s1[5] = "1234", *p;  
    p=s1+2;  
    *p='0';  
    Printf("%s",s1);  
}
```

Ans:1204

6.assume char take 1 byte and output?

```
Int main(){  
char str[10]={"zoho"};  
printf("%d",sizeof(str));  
return 0;  
}
```

Ans:10

7.guess output of this c snippet?

```
#include<stdio.h>  
int main(){  
char p[20];  
char *s="string";  
int len=strlen(s);  
int i;  
for(i=0;i<len;i++)  
p[i]=s[len-i];  
printf("%s",p);  
return 0;  
}
```

Ans:nothing will print

8. output?

```
Int main(){
char a[2][3][3]={'z','o','h','o','p','r','e','p'};
printf("%s",**a);
return 0;
}
```

Ans:zohoprep

9. char arr[]="zoho";
printf("%d",sizeof(arr));

ans:5

10. base address start at 2000 and output?

```
Int main(){
Int arr[5];
arr++;
printf("%u",arr);
return 0;
}
```

ans:error , ans is not 2004

11.out put of the following snippet?

```
int main(){
    int arr={1,2,3,4,5};
    int *ptr=(int*)(&a+1);
    printf("%d",*(ptr-1));
    return 0;
}
```

Ans:5

12.int main(){
Int l;
Int arr[5]={1};
for(i=0;i<5;i++)
printf("%d",arr[i]);
return 0;}

ans : 1 0 0 0 0

13.out put?

```
char c[]="ZOHO2020";
char *p=c;
printf("%s",p+p[3]-p[1]);
```

Ans:ZOHO2020 , GATE2020 →2020

14.Guess the output of following snippet

```
#include<stdio.h>

#define sqr(x) x*x

int main(){

int a=1;
int b=2;
printf("%d",sqr(a+b));
return 0;
}
```

Ans :5 //1+2*1+2

15.what will be the output ?

```
#include<stdio.h>

Int main(){

Int i;
If(i=printf("zoho")) printf("%d",i);
return 0;}
```

Ans:zoho4

16. find the output?

```
#include<stdio.h>

int main(){
    int i=2;
    printf("%d %d",i,i++);
    return 0;
}
```

Ans: 3 2

17. what is the output of following c snippet ?

```
Void fun(int *p){
    Int q=10;
    p=&q;
}

Int main(){
    Int r=20;
    Int *p=&r;
    fun(p);
    printf("%d",*p);
    return 0;
}
```

Ans:20

18.Guess the output?

```
#include<stdio.h>
#define R 10
#define C 20
Int main(){
    Int (*p)[R][C];
    Printf("%d",sizeof(*p));
    Return 0;
}
```

Ans : 800

19. output ?

```
Int main(){
    Int arr[]={1};
    Int i;
    for(i=0;i<5;i++);
    {
        printf("%d",i);
    }
    return 0;
}
```

Ans:5

20. what will be the output of the following c code?

```
#include<stdio.h>
int main(){
int i=0;
int arr[]={1,2,3,4,5};
printf("%d%d%d",i[arr],i++,arr[i++]);
return 0;
}
```

Ans : 311

2.Programming Round

In this round you are given by a problem statement and ask you to write a code for solving a problem also called short coding round . usually 3 to 5 problems are asked . problem solving which is logical thinking and able to write code in c or c++ or java . arrays , matrix (2D) and String manipulation question are frequently asked.so here we are explore five short coding problems just refer the following .these questions are may or may not be ask in interview process.

1.Zero at Last

Problem Statement:

You are given an array of integers with size n .you have to form an array such that all zeros present in array will locate to the last.(move zeros to end of array)

Input format:

First line contain size of array

Second line contain array of elements with separate by space

Output format:

print array of integers such that zeros are at last

sample input:

10

8 0 4 0 2 0 1 3 55 1005

Sample output:

8 4 2 1 3 55 1005 0 0 0

Solution in java:

```
import java.util.*;
class moveZero{
    public void zeroAtLast(int n , int[] arr){
        int cnt=0;
        for(int i=0;i<n;i++){
            if(arr[i]!=0) {
                arr[cnt]=arr[i];
                cnt++;
            }
        }
        for(int j=cnt;j<n;j++)
            arr[j]=0;
    }
    public void printArr(int[] arr){
        for(int i=0;i<arr.length;i++){
            System.out.print(" "+arr[i]);
        }
    }
}

public static void main(String args[]){
    int[] arr={8,0,4,0,2,0,1,3,55,1005};
    int n=arr.length;
```

```
moveZero mz = new moveZero();
mz.printArr(arr);
System.out.println("");
mz.zeroAtLast(n,arr);
mz.printArr(arr);

}

}
```

2.Cross String

Problem Statement:

You are given a odd length string .convert a string to its cross string .look like in the example.

Input Format

First line contain a odd length string

Output Format

Print the cross string

Example

Sample input :

zohoround

Sample output:

z d

o n

h u

o o

r

o o

h u

o n

z d

solution:

```
import java.util.*;
class crossString{
    public void getCrossString(String str){
        int len=str.length();
        for(int i=0;i<len;i++){
            for(int j=0;j<len;j++){
                if(i==j || (i+j)==len-1){
                    System.out.print(str.charAt(j));
                }
                else{
                    System.out.print(" ");
                }
            }
        }
    }
}
```

```
        }
        System.out.println("");
    }

}

public static void main(String args[]){
    crossString cs = new crossString();
    String str="zohoround";
    System.out.println("actual String is "+str);
    System.out.println("cross string as follows :");
    cs.getCrossString(str);
}
}
```

3.Expand the String

Problem Statement:

You are given a string . in that string a English letter followed by a digit between 0 and 9 . you are ask to print a patter like in example.

Input format:

The first line contain a string with a sequence of letter- digits

Output format:

Print a patter like as follows

Sample Input

a1b6c5d4

Sample Output

abbbbcccccddd

Solution:

```
import java.util.*;  
class expandGivenStr{  
    public void expandStr(String expand){  
        int len=expand.length();  
        String ans="";  
        for(int i=0;i<len-1;i+=2){  
            char letter=expand.charAt(i);  
            int times=Integer.parseInt(String.valueOf(expand.charAt(i+1)));  
            for(int j=0;j<times;j++)  
                ans+=letter;  
        }  
        System.out.println(ans);  
    }  
    public static void main(String args[]){  
        String expand="a0b0c1d1";  
        System.out.println("Given String:"+expand);  
        expandGivenStr egs = new expandGivenStr();  
        egs.expandStr(expand);  
    }  
}
```

}

4. Sliding window Max

Problem Statement:

You are given a window size k and n size array of integers . you have to find maximum with in the window size . for each step window moves by one.

Input format

First line contain a window size k

Second line contain array of Integers

Output format

Print max in each window

Sample Input:

3

1 1 5 2 6 2 4 8 9

Sample Output

5 5 6 6 6 8 9

Solution:

```
class slideWin{  
    public void maxwindow(int k,int[] arr){  
        int len=arr.length;  
        for(int i=0;i<=len-k;i++){  
            int max =0;  
            for(int j=i;j<i+k;j++){  
                if(max<arr[j])  
                    max=arr[j];  
            }  
            System.out.print(max+" ");  
        }  
    }  
}
```

```
        if(max<arr[j])
            max=arr[j];
    }
    System.out.print(" "+max);
}
public static void main(String args[]){
    int k=3;
    int[] arr={1,1,5,2,6,2,4,8,9};
    slideWin sw =new slideWin();
    sw.maxwindow(k,arr);
}
}
```

5.Count Number Pattern

Problem Statement

You are given a number N . you are ask to print a pattern for n lines . in that pattern each line contain count and followed by number . start with number 1.

Input format:

First line contain a number N

Output format:

Print a patter for n line.

Sample Input:

5

Sample output:

1

1 1

2 1

1 2 1 1

1 1 1 2 2 1

Solution:

```
import java.util.*;  
class countNumber{  
    public void cntnumpat(int n){  
        String start="1";  
        System.out.println(start);  
        for(int i=0;i<n-1;i++){  
            StringBuilder str = new StringBuilder();  
            for(int j=0;j<start.length();j++){  
                int cnt=1;  
                while(j+1<start.length() &&  
start.charAt(j)==start.charAt(j+1)){  
                    cnt++;  
                }  
                str.append((char)('0'+cnt));  
            }  
            System.out.println(str);  
        }  
    }  
}
```

```
        j++;
    }
    str.append(cnt).append(start.charAt(j));
}
start=str.toString();
System.out.println(start);
}

}

public static void main(String args[]){
    int n=5;
    countNumber cn = new countNumber();
    cn.cntnumpat(n);
}
}
```

3.Advanced Programming Round:

In this round you are ask to develop a System . a complete System with modules that are ask to develop .like

Railway Reservation System

Bus ticket booking

Air traffic control

Ticket booking system

Here I develop a movie ticket booking system without using any database and file system in four modules follows as

i)Show movies

ii)Book ticket

iii)View ticket

iv)Cancel ticket

I will share the source code

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I will share this file & source codes.

Thank you & All The Best