

Adobe Latest Placement Paper 08 February 2011 at Hyderabad

Engineering Round:

1 Finding height of binary tree

2. Number of times multiplication is required:

```
int computeXn(int x int n)
```

```
{
```

```
if(n%2=0)
```

```
{
```

```
return x*x;
```

```
}
```

```
else if(n%2=0)
```

```
{
```

```
int y computeXn(x n/2);
```

```
return y*y;
```

```
}
```

```
else if(n%2=1)
```

```
{
```

```
int y computeXn(x n/2);
```

```
return y*y*x;
```

```
}
```

```
}
```

Calculating power of a tree for 5^{12} .

3. Polynomial $A+Bx+Cx^2+\dots+Nx^{(n-1)}$ this representation is more suitable for which data structure. Then P and Q are two such polynomial and how to add that two using that data structure. WAP for that.

4. Specification of variables in one language: letter follow by letter or digit.

Options:

1. (LUD)*

2. L.(LUD)* => this one right.

3. L.(L.D)+

4. L.(L.D)*

5. How Generic Swap of two elements can be implemented? that supports all type line int char float double etc..

6. Diff between typedef and #define?
7. getbis function gives n bits from the position p of an binary no A.
8. You have to sort large data. But your memory does not have so much space. how you can sort that.
9. a[2][3][4] pointer representation
10. You have two threads T1 and T2 they are reader and writer respectively. With some specification:
ADDNEW.Process
PROCESS.SET
PROCESS.RESET
ENTER CS
EXIT CS
LOOP
EXIT LOOP
WAIT# PROCESS

[Adobe placement test paper 09 February 2011 at hyderabad](#)

- Q1) linked list using recursion.
- Q2) Find if a number is divisible my 3, without using %, / or *. You can use atoi().
- Q3) 2 integers A and B are given, find the no of bits that need to be flipped in A to get B. (xor a and b and count the number of bits)
- Q4) Write a Rotate function for rotating elements in an array, using a reverse function.
- Q5) Given 2 sorted arrays A and B with duplicate elements, get C= A -B and does not have duplicates(use a variation of merging 2 arrays and then remove the duplicates.)

Q6) Some routines to swap int pointers.

Q7) Subtraction of 2 base 13 numbers.

Q8) Min and max nodes of a quad tree.

Q9) Prove that in a tree no of internal nodes is one less than leaves.

Q10) A couple of boolean logic proofs

Q11) Code to see if a binary tree is a BST or not.

ADOBE Placement Paper Pattern Aptitude paper 03

March at Kanpur

Following is the test pattern:

1. Aptitude: 45 minutes
45 questions in total. Refer R.S Agarwal or CSR.
15 questions from analytical.
30 questions from quantitative aptitude.
No test on English language.

2. Subjective questions.
10 questions: 30 minutes.
10 questions: 45 minutes.

The paper comprised of the following topics:

1. Algorithm analysis.
Finding time complexity of a program written in pseudo code.
Writing 1 pass algorithms for sorting with some given constraint(s).

2. Microprocessor.
Use of 5-6 mnemonics only and 3 registers we are asked to write a program.

3. C-language.

String operations without using standard string library functions.

4. Automata theory.

One nfa was given to accept bbb. We are to find a fsm that will accept aabb.

One fsm was given finding the number of string that it can accept.

The questions was little bit tricky but if prepare well for GATE examination, this examination is quite suitable for you.

5. How Generic Swap of two elements can be implemented? that supports all type
line int char float double etc.

6. Finding height of binary tree from figure

7. Number of times multiplication is required:

```
int computeXn(int Q int n)
```

```
{
```

```
if(n%2=0)
```

```
{
```

```
return Q*Q;
```

```
}
```

```
else if(n%2=0)
```

```
{
```

```
int y computeXn(Q n/2);
```

```
return y*y;
```

```
}
```

```
else if(n%2=1)
```

```
{
```

```
int y computeXn(Q n/2);
```

```
return y*y*Q;
```

```
}
```

```
}
```

Calculating power of a tree for 6^{113} .

8. Polynomial $P+Qx+Rx^2+\dots+Nx^{(n-1)}$ this representation is more suitable for which data structure. Then A and B are two such polynomial and how to add that two using that data structure. WAP for that.

9. Specification of variables in one language: letter follow by letter or digit.

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