

HP PAPER ON 12th AUGUST 2008

Hai visitors, this is RAJU. now i am studying M.C.A in GITAM.HP visited our college on 11th and 12th of August 2008.Coming to selection procedure, there are four rounds

- 1.written test
- 2.GD
- 3.Tech round
- 4.HR

package is 2.9lakh p.a for B.Tech and M.C.A 3.2lakh p.a for M. Tech

Nearly 350 students attended for written test

1.WRITTEN TEST: (55M)It consists of 6 sections, for each section they gave seperate papers. It is hadled by Merittrak Consultancies
sec 1: analytical(25M) sec 2: C programming(10M) sec 3: general theory questions(5M)
sec 4: DBMS questions(5M) sec 5: Data communication and networking(5M) sec 6:
Operating systems(5M) analytical is very easy consists of data sufficiency and
interpretaion type. except DCN remaining are not much tough. oh God, after 3h they
anounces results. 86(29 M.C.A's) students are shortlisted in this round.

2.GD:This is very cool. They selected every girl who gone through written. But gents are mostly eliminated.

Topics: 1.child labour 2.Inflation and 3.Impact of Western culture on Indians In this round 44(18 M.C.A's) are shortlisted

3 .TECH: In this round there are two panals. one is eliminating and other is very good. In eliminating panel he simply concentrated on project. He selected only those who done projects and explained well(1selected out of 5). Where as in other panel he mainly asks questions on DBMS(keys, cardinality ratio, ER diagrams, Normalization etc)(4 selected out of 5).In Tech 25(10 M.C.A's) are shortlisted.

4. HR: In this round only one panal is there and he asks simply about family background, tell about urself, why hp, your economical position like questions. Oh finally at 11:30PM they anounces the final results. They shortlisted 17(6 M.C.A's) students.

ALL THE BEST FRIENDS, THIS IS VERY GOOD COMPANY, TRY WELL AND DO WELL. BYE

HP PAPER ON 15th MAY 2008

hello everybody ...hope my questions will help

- 1.the paper was totally filled with c.
- 2.some programs were given and u are asked for the output.
3. give the o/p of the following programs>>>

a)main()
{ printf("%d",scanf("%d%d",printf,scanf));
}

1)2 2)2 2 3)0 4)error

b)there was a program of swaping by pointer(check it out)

c)main()
{ char *p="quick";
char q[]="sort";
char *t;
t=malloc(sizeof(p)+sizeof(q)+1);
strcpy(t,p);
strcat(t,p);
}

1)quick sort 2)sort sort 3)quickqick 4)sort quick

d)main()
{ int s[]={1,2,3,4,5,6};
printf("%d",&a[0]-&a[5]);
}

1)error 2)8 3)6 4)0

e)try to know pointer and its various operation (say what will happen if 2 pointer is added or int pointer is addressed to a char etc.)

4.try to know something about firewall and its functions

best of luck

By,
Sayan Guha Roy

HP PAPER ON 6th JUNE AT BHUBANESWAR 2007

Hi! This is SOURAV SETHI.....4m Kharagpur.hp conducted t recruitment at our college on 6th june 2007.

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The selection process is as follows:

1. Written
2. GD
3. Technical Interview
4. HR Interview

1. The written test was conducted by a consultancy. It consisted of:

1. Logical analysis(25 question): The questions were not hard some of them were very easy, particularly a venn diagram question.

2. Technical(30 question): The technical questions were tough, the questions were mainly 4m C, C++, rdbms n digital electronics ckt(DEC)

There were sectional cut-off. 4m around 200 candidate only 63 cleared the written test.

2. Then there was the GD. The GD topics were very simple like

a. should there be uniform dress code in college?

b. love marriage or arranged marriage

c. mercy killing (this was the topic for our group)

for the GD, the HR will ask you to suggest any topic, try to give the topic in which you can be comfortable.

for the GD the HR clearly told us what he was looking for in a GD..... 1st fluency 2nd accent 3rd grammar

out of 63 candidate only 22 cleared the GD

3. The Technical Interview round:

In this round your project is going to help you a lot.

the questions that were asked 2 me-

Tell me about your project?

how can your project be helpful in software field?

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questions abt computer like, what storage device in comp, draw d block diagram of computer?

why do u want to join s/w?

*make sure that while answering the questions be confident.

In this round apart 4m ur technical knowledge they r checking ur communication skills and ur way of delivering aswers.

here out of 22 candidate 11 were selected 4 d HR interview

4.HR Interview round:

It was a very easy round. here again they r concentrating on ur communication skill and ur confidence

the ?s r very easy.....they asked me

Tell me something abt urself?

what social work u like to do?(as i have mentioned in my cv that i like doing social work)

Why do u do social work?

Why s/w?

Finally out of 11 candidate only 7 were selected. Luckily i was one of them. Best of luck freinds

HP PAPER ON 11th JULY AT VISAKHAPATNAM 2007

Good evening friends.....today we had hp company on campus to our college,GITAM....they allowed CSE, IT, ECE, EIE, EEE, MCA, and M-TECH students...first we had ppt on mornig section followed by written.

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totally four rounds...

Written test

Group discussion

Technical round

Finally hr

in written test, there are two sections for both IT and non IT branches.....aptitude and technical,there will be two sets

In APTITUDE, they asked totally 25 questions for 30minutes....

some questions on venn diagrams(1,2,3,4)(little hard but can get it), one question on ratio and proportion, ages, (4-5) questions on Data Sufficiency, 5 questions on binary decimals(very easy), speed and time one question, one problem on series(it is hard better leave it if you cant do it,but dont waste time), directions-1 question(very easy), blood relation 1-question (very easy),.....i remember this much only.....

try to complete in given time.....i dont the cut-off.....

Next is TECHNICAL, there are totally 30 questions in 40 minutes. i dont remember questions but....for CSE and non CSE,the papar is different,dont worry, i am from EEE branch, and my paper was very easy,,,,,,its all C pointers, matrices in arrays, structures, errors type questions,,,,, and from digital circuit design (using gates,,)etc

for CSE people they were asking many questions on all programming languages it seems,, C, C++, UNIX,dbms,etc.....

naerly 300 attended written 100 were short listed for GD round.....

GROUP DISCUSSION

our topic is : "SHOULD INDIANS ARE ALLOWED TO GO ABROAD"; i have speaken twice, i got a chance for less no. of times because i sat at corner.....one more topic i got to know from my friends is " LIFE IN SPACE" .38 were cleared in GD

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TECHNICAL ROUND

all are very friendly with us

my round came,i entered the room,

good evening sir,

he saw all my education details,he asked me why i have scored less in tenth class,i said ,sir i have started my studies from my tenth in a better way,he convinced with my answer....

be confident in what ever you say

he asked questions on c program(wap on factorial)

he asked for my favourite subject

i said electrical machines

he is basically from electronics so he could ask any questions from machines

then he asked questions from linear integrated circuits (LIC) and power electronics(SCR)

difference between diode and SCR

draw characteristics and diagram of both and difference between them.....

few questions data structures(linear linked lists,doubly linked list,stacks, queues);

thats my technical round got selected and waited for HR

HR ROUND

good evening sir,

he introduced himself,he is also very friendly,cooperative with my answers

again same question.....why is your tenth marks are so less

are you feeling nervous.....no sir,i smiled

he said i think you are always smiling

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i said yes sir,

what is your father & mother occupation

your brother doing

one suitation question,if your principal was given Rs.50000/- for your computer lab commence.....what will you first.....and if four more members were also given the same job what will you do

if you selected and appointed in bangalore how will you manage your time when you have stay atleast 30 km far from office

have you visited bangalore or chennai any time,,,,

will you find any difficulty in staying outside

will your parents agree for this

do you wanted to ask any questions on hp or else any thing

can you tell my weakness that you found now..he said i am weak in communication,and not focus on one particular area i.e. my thinking ability is not fixed

finally i was selected for hp.....

so friends be cool and confident and make sure you were not seen as tensed way and dont show expressions to them so that they may catch you out of 20 girls they selected 10 girls. i dont know the total selected number

HP PAPER ON 13th JULY AT CHENNAI 2007

Hai....friends,

here was one puzzle like there are 6 members in a family n they are teacher, student, engineer, lawyer, docter and housewife.

2 is mother of 3 who is a teacher

4 is Grand mother of 3 that is a house wife.

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3 is sister of 1

6 is father of 1 that is doctor

and 5 is lawyer father of 6

Q1- who is student

Q2- who is engineer.

Q3- who is a girl in the family.

Q4 - sum of the no between 1 to 100 divisible by 2 and 5.

ans 550

Q5 - some question were from english series as which will be next

ADEHI and is LM

Q6- some were from probability.

as 2 dice are thrown and probabily of coming some more than 8.

some question were from reasoning....

and in last there was technical question from DS, VB and .Net as

1 - the size of text box.

2 - the size of msg box

3- what operator used to compare two string

4- DIM i,j means ... variant i,and variant j

Operating Systems

Study all the unix commands & some basic networking concepts like DHCP, Dynamic NAT, RARP, ARP, UDP, DNS. Unix : Grep, sed, basic perl program whose o/p is to be

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predicted. Pipes. You can expect some nasty & tricky questions !. But this section is kool not to worry too much

Section 2 : Programming part

C programs & Java programs. The programs seems to be easy but bcoz of the Negative marking (0.5) we have to be very clear. No bluffing ok! The programs are easy. Programs were on Fork, PID, Basic C syntax, Basics of Java, Exception handling, Inheritance, Strings, Cast conversion, Object linking etc

Section 3 : Aptitude

Most of the questions can be found from other placement papers like Sonata, TCS, Caritor. Nothing to worry much. But again you have to be very confident about the answers.

Bye dear thanks alot and all the best..

HP PAPER ON 15th MAY 2007

hello everbody ...hope my questions will help

- 1.the paper was totally filled with c.
- 2.some programs were given and u are asked for the output.
3. give the o/p of the following programs>>>>

a)main()

```
{ printf("%d",scanf("%d%d",printf,scanf));  
}
```

1)2 2)2 2 3)0 4)error

b)there was a program of swaping by pointer(check it out)

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c)main()

```
{ char *p="quick";
```

```
char q[]="sort";
```

```
char *t;
```

```
t=malloc(sizeof(p)+sizeof(q)+1);
```

```
strcpy(t,p);
```

```
strcat(t,p);
```

```
}
```

1)quick sort 2)sort sort 3)quickqick 4)sort quick

d)main()

```
{ int s[]={1,2,3,4,5,6};
```

```
printf("%d",&a[0]-&a[5]);
```

```
}
```

1)error 2)8 3)6 4)0

e)try to know pointer and its various operation (say what will happen if 2 pointer is added or int pointer is addressed to a char etc.)

4.try to know something about firewall and its functions

HP Placement Paper and Sample Paper

The test comprises of 4 sections:

Section A. -----50qns(general appitude,english etc):

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Section B. ----- 10 Questions on Computer concepts.

Section C. ----- 30 Questions on C

1. WAP find and replace a character in a string.
2. WA function to perform the subtraction of two .Eg:char N1="123",N2="478",N3=-355(N1-N2).
3. WAP dynamically initialize a 2 dimensional array Eg:5x20,accept strings and check for vowels and display the no.finally free the space allocated .
4. WAP read a line from file from location N1 to N2 using command line arguments
Eg:exe 10 20 a.c
5. WAP find the largest of 4 no using macros.

General section

Computer science general, c/c++ section, Java section ,The question paper had 48 questions to be answered in 1hr. Time will be quite sufficient. They have different sets of question papers. .

- 1 General section : computer science general knowledge
2. Computer science general: simple questions

1. HP acquired this company in 2002. Which is the company

- a) Compaq b) Dell c) option 3 d) Option4

Ans: a

2. What does 3G denote

- a) 3rd generation mobile communication b) 3rd generation computer languages c) option 3 d) option4

Ans: a

3. An application program that is used by the users to get the information from the backend of some application like databases:

- a) application server b)proxy server c)database server d)option 4

Ans: database server

4. Which of the following is not true about the e-mail

- a) It can be accessed by a client program using POP
b) It can be accessed by a client program using imap protocol
c) option 3
d) option 4

Ans: I don't remember the answer but first 2 are true.

5. Some question regarding the company and who developed it (the thing to remember is that Apple produce Macintosh computers).

c/c++ section: questions on c/c++, programs o/p etc.

```
1 main( )
{
unsigned int i=3;
while( i >=0)
printf( "%d", i--);
}
```

how many times will the printf stmt be executed?

a)0 b)3 c)4 d)infinite

Ans: I think the answer is infinite, b'cos 'i' is an unsigned integer and it will not decrement below '0'

and hence end up in an infinite loop.(yes, i checked and it is getting stuck in an infinite loop)

```
2. main( )
{
int x,y, z;
x=2;
y=5;
z= x+++y;
printf("%d %d %d", x, y z);
}
```

a)3 5 7 b)option 2 c)option 3 d)option 4

Ans: a

```
3 # define swap(a,b) temp=a; a=b; b=temp;
```

```
main( )
{
int i, j, temp;
i=5;
j=10;
temp=0;
if( i > j)
swap( i, j );
printf( "%d %d %d", i, j, temp);
}
```

Ans: On compiling i got ans 10, 0, 0. I did not understand the concept. Please explain this to me.

4. Java section: questions on java related stuff.

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1) Java was initially code named as:
a)Oak b)green c)miller d)option4
Ans: Oak

5. What is not true about the following statements about java.
a) it is compiled using javac compiler
b) the compiled files have .class extension.
c) such files cannot be transferred from one comp to another.
d) they use the java interpreter
Ans: c

6. Why is the synchronize used?
a) to initialize multiple objects b)to lock an object c)option3 d)option 4
Ans: b (probably)

HP Sample Test Paper

Preparation:

For C,C++--> Test ur C,C++ skills by Yashvanth kanithakar
For Java--> any good book.

Pattern:

48Q totally

12Q in General computer test?(Concentrate more on ceo's and founders of
HP,Microsoft,intel,sap etc..)It even includes Q in OS,N/wing

12Q on C,

12Q on C++

12Q n java

All section r compulsory..(Even for Non java guys)

U can find one paper in www.freshersworld.com

In the interview(ie ont he 2nd ropund..they will ask Q mostly in C,C++,Java.The
employee who r asking the Q r very jovial..So develop ur confidence level.They mostly
ask abt ur latest projects,

If u clear this level..next will be HR round.

If u clear the second round mostly..u r selected(90%).

HR is just for a formality..

The interview pattern will be as:

1. Tell abt your self.

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2. They will ask for the subjects in which we are strong
(Here they will consider the ranking that we written during written examination & marks we got in written exam)
3. Mostly the interview time will be 45 minutes around (for only people there is about 1.5 hr)
4. HR questions may include here
5. Good thing is They r friendly and cooperative so confidence place role.

If u don't know the answer better not to answer than to tell some bad stuff.

For me 2 people interviewd. As I told them that I am strong in C they told me to write some programs like double linked list, singly linked list(adding node at last), macros, const *,char *,pointer arrays.

The main question that they asked was how can u compile or execute 'c' program without editor. (Using TCC utility)

coming 2 cpp only 1 question i.e what is polymorphism.

Java they asked me about protocol used in JSP, which layer does it belongs to, main differences between _Javascript ,java and JSP.

During personal introduction try to excell your capabilities by giving examples like as fast learner, hard worker like..!

If u have any achievements & awards try 2 put them all during personal INtroduction.

The interviewers are very co-operative and highly friendly (so confidence plays vital role)

There are four sections in the test

- 1.general ability(12q)
- 2.computer science(12q)
- 3.c/c++(12q)
- 4.java.(12q)

All the questions are mandatory. No negative marking
the questions are
section 1

- 1.Intel's first processor is
1)-----2)4004 3) 80804)8086

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2) Founder of Microsoft corporation

1) Bill Gates 2) Billgates and -----

3) Bill gates and Paul Allen 4) Billgates and -----

3) Oddman out

1) Internet Explorer 2) Alt Vista 3) Netscape Navigator 4) Opera

4) Which of the following is not a database

1) PLSQL 2) MSSQL 3) MySQL 4) Informix

5) Laura C--- (I don't remember exact spelling) is CEO of

1) Oracle 2) DELL 3) Hp 4) Intel

Ans) She is CEO of HP

6) 'SUN' Microsystems SUN stands for

1) Simple Unified Network 2) Solaris Unified Network 3) -----

4) None of the above.

section 2

1) IRC stands for ans) Internet Relay chat

2) ICQ stands for ans) -----

3) The protocol used to translate Internet address to Network address is

1) IP 2) TCP 3) ARP 4) RARP

4) In some OS the option that the system provides to communicate with other process is

1) IPC (Inter Process Communication) 2) ---- 3) ---- 4) ----

5) VPN stands for ans) Virtual private network.

6) The time taken to transfer data from one place to other place or process within specified time is

1) Throughput 2) Latency time 3) Response time 4) -----

7) The time complexity for which of the following is $O(n \log n)$

1) Radix sort 2) Quick sort 3) Shell sort 4) Bubblesort.

8) Which of the following is used pass the packets between networks

1) ----- 2) Bridges 3) Router 4) Gateways

section 3

1) Which of the following can be used to print % to the screen

1) printf("\%"); 2) printf("\\%"); 3) ----- 4) -----

2) how many times the loop is executed

```
main()
{
int i=3;
while(i>=0)
printf("%d",i--);
return(0);
}
```

1) 3 2) Infinite 3) 0 4) 2

3) what is the output

```
int l=10;
printf("%d %d %d ",i,++i,i++);
```

1) 10 11 11 2) 11 11 10 3) 10 11 10 4) None of the above

4)

```
x=2;
y=5;
z=x+++y;
printf("%d %d %d",x,y,z);
```

1) ----- 2) ----- 3) ----- 4) -----

5) In c++,

1) -----

2) -----

3) you cannot Overload new operator for a class

4) -----

6) Void xyz(char a[10])

```
{
int i;
i=sizeof(a);
printf("%d",i);
}
```

1) 10 2) can't say 3) 2 4) same as size of pointer.

7) Local Variables is stored in which part of the memory

1) register or heap 2) heap 3) register or stack 4) -----

8) which of the following can be shared by programs

1) Text Code

2) Data segment

3) heap memory

4) -----

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section 4

Sorry I don't remember the Java Questions

I am giving the questions on 3 sections. c/c++ was very easy

For any further information mail me.

4 sections

48 questions

no negative marking

all objective questions.

IT Information

1. Who is associated with C language?
2. CEO of Microsoft
3. Company producing Routers, Bridges
4. From 70s 80s Company producing mouse, GUIs.....a) Dell b) IBM c) Xerox d) HP
5. Inventor of Pascal
6. About SUN micro systems
7. first digital computer machine a) von Neumann b) Dijkstra
8. Which of these is not search engine a) HotBot b) Parametric c) Altavista d) Google
9. In 2002 IBM acquired which company a) Rational b) Oracle c) Netscape
10. founder of Apple computer (2 persons)

Computer Concepts

1. Complexity $n \log n$ a) quick sort b) bubble sort c) shell sort
2. About Protocols
3. About SSL
4. About MBR
5. Cross compiler
6. synonym for main memory
7. Semaphores
8. Database questions Stored procedures
Trigger strategy
9. Bandwidth measured in ?
10. Term associated with Context Transaction

Java

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1. extending the class means
2. how many values does char of java has
3. Java pgm can be executed on any m/c how?
4. utility used for dynamically changing the tables
 - a. vector b. hash table c. enumeration
 - d. structures
5. synchronise means
6. if X & Y r objects X = Y means
7. which action Java platform restricts on applets
 - a. Image viewing
 - b. Accept user i/p
 - c. write to system files
 - d. initialise date in browser
8. quesns on JDBC
9. Two quesns on simple java pgms.
10. Java was initially code named as:
 - a) Oak b) green c) miller
- 11.) what is not true about the following statements about java.
 - a) it is compiled using javac compiler
 - b) the compiled files have .class extension.
 - c) such files cannot be transferred from one comp to another.
 - d) they use the java interpreter

Hi friends,

I am sorry for I will be mailing to u all the questions i know today by 6 pm. Anyway Test was easy . There were 48 questions. There were 3 series of quesn papers.

So prepare in general dont rely on the quesns that iam going to send.

12 questions in each section

- 1> General IT information(easy)
- 2> C/C++ (very easy)
- 3> Computer Concepts(Database, Unix,....)
- 4> Java/JdBC (little tough)

The test comprises of 4 sections:

Section A. -----50qns(general appitude, english etc):

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Section B. ----- 10 Questions on Computer concepts.

Section C. ----- 30 Questions on C

Duration 90min, no negative marking. one mark per question .

Once this is cleared then u must take a c programming test duration 40min.

5 programs,each got differnet papers.one i got was

1.WAP find and replace a character in a string.

2.WA function to perform the substraction of two .

Eg:char N1="123",N2="478",N3=-355(N1-N2).

3.WAP dynamically intialize a 2 dimentional array Eg:5x20,accept strings and check for vowels and display the no.finally free the space allocated .

4.WAP read a line from file from location N1 to N2 using command line agruments

Eg:exe 10 20 a.c freshersworld.com

5.WAP find the largest of 4 no using macros.

Some questions that i remember are.....

1>General section : computer science general knowledge

2> Computer science general: simple questions

1) HP acquired this company in 2002. Which is the company

a)Compaq b)Dell c)option 3 d) Option4

Ans: a

2) what does 3G denote

a) 3rd generation mobile communication b) 3rd generation computer languages c) option

3 d) option4

Ans: a

3)an application program that is used by the users to get the inofrmation from the backend of some application like databases:

a) application server b)proxy server c)database server d)option 4

Ans: database server freshersworld.com

4) which of the following is not true about the e-mail

a) it can be accessed by a client program using POP

b) it can be accessed by a client program using imap protocol

c) option 3

d) option 4

Ans: I don't remember the answer but first 2 are true.

5) Some question regarding the company and who developed it (the thing to remember is that Apple produce Macintosh computers).

5) What is X.25?

a)option 1 b)option 2 c)option 3 d)option 4

Ans: find out??:-)

3> c/c++ section: questions on c/c++, programs o/p etc.

1) main()

{

unsigned int i=3; freshersworld.com

while(i >=0)

printf("%d", i--);

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```
}
```

how many times will the printf stmt be executed?

a)0 b)3 c)4 d)infinite

Ans: I think the answer is infinite, b'cos 'i' is an unsigned integer and it will not decrement below '0' and hence end up in an infinite loop.(yes, i checked and it is getting stuck in an infinite loop)

2) main()

```
{  
int x,y, z;  
x=2;  
y=5;  
z= x+++y;  
printf("%d %d %d", x, y z);  
}
```

a)3 5 7 b)option 2 c)option 3 d)option 4

Ans: a

3) # define swap(a,b) temp=a; a=b; b=temp;

main()

```
{ freshersworld.com  
int i, j, temp;  
i=5;  
j=10;  
temp=0;  
if( i > j)  
swap( i, j );  
printf( "%d %d %d", i, j, temp);  
}
```

Ans: On compiling i got ans 10, 0, 0. I did not understand the concept. Please explain this to me.

4>Java section: questions on java related stuff.

1) Java was initially code named as:

a)Oak b)green c)miller d)option4

Ans: Oak

2) what is not true about the following statements about java.

- a) it is compiled using javac compiler
- b) the compiled files have .class extension.
- c) such files cannot be transferred from one comp to another.
- d) they use the java interpreter freshersworld.com

Ans: c

3) Why is the synchronize used?

a) to initialize multiple objects b)to lock an object c)option3 d)option 4

Ans: b (probably)

.....
.

.From 70s 80s Company producing

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mouse, GUIs.....a) Dell b) IBM c) Xerox d) HP

3) an application program that is used by the users to get the information from the backend of some application like databases:

a) application server b) proxy server c) database server d) option 4

Ans: database server

8. Database questions Stored procedures

Trigger strategy

9. Bandwidth measured in ?

10. Term associated with Context Transaction

2) ICQ stands for ans)-----

```
class A
{
A(int x)
{
System.out.println(" x=" + x );
}
A(int x,int y)
{
System.out.println(" x=" + x + " y=" + y);
}
}
class HPTest4
{
public static void main(String args[])
{
A a=new A(1);
A b=new A(2,3);
A c=new A();
}
}
```

Hi all,

I am no HR. So plz do not mail u'r resumes 2 me.

The test is not 4 freshrz. 4 them the pattern is completely diff. This test was 4 ppl with

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6mnths 2 18mnths exp.

HP Q Paper Pattern:-
48Q 1 hr
12Q General Knowledge
12Q General CSE
12Q C and C++
12Q Java

The q's r as follows:-

1. Which of the foll is not a protocol.

HTTP PIM PSI

A> PSI (check)

2> Which of the foll does not help security.

Good Password
Update Antivirus
VLAN

A> VLAN

3> What was the prob with Intel Processor

Cache
FPU
NONE
A> FIND OUT AND LET ME KNOW

4> What does MIME stand for

A> Multipurpose Mail Exchange Protocol

5> What does XP stand for in WIN-Xp

A> Experience

6> Who is associated with C

A> Dennis Ritchie

7> Which of the foll is not a IM client

AOL

MSN
JABBER
XINGC
A> XINGC

8> What does ERP stand 4

A> Enterprise resource planning.

9> Who is associated with HOTMAIL

SABEER Bhatia and Jack Smith
SABEER Bhatia and Bill Gates

A>SABEER Bhatia and Jack Smith

10> What does UNIX stand 4???
Find out

11> Which of the foll is not a app server
BLUESTONE
WEBSHERE
TOMCAT
JBOSS

A> BLUESTONE

GENERAL CSE Q's

12> What do u call software embedded in ROM

BIOS
FIRMWARE
SHAREWARE
FREEWARE
A> BIOS (Verify and plz let me know)

13> What is semaphore used 4????

14> Integral Constraint helps in???

A> Solving Inconsitent Data prob.

15> PING uses

A> ICMP

16> IP ADDRESS occupies

4 bytes

8 bytes

16 bytes

6 bytes

A> I wrote 8. correct ans 4

17> Which DataStructure helps Searching

STACK

LINKED LIST

HASH

A> HASH

18> Q on Binary tree Depth?

2^n

$2^n - 1$

$\log n$

19> Database shud hav

A> ACID properties.

20> VPN stands 4

A> virtual private n/w

21> what does fork() return 2 parent

child pid

0

A> 0

22> What do u call the relationship b/e a table and its columnz

A> Schema

12Q on c & c++

23> What is true about c++

A> IT can hav virtual constructors

24> result of `i=6; printf("%d",i++*i++)`

36

54

cant say

A> Can't say (compiler dependent)

25> output of

```
char str[20] = "SANJAY"
```

```
printf("%d%d",sizeof(str),strlen(str))
```

ANS> 20,6

26> Which of the foll cannot b used accross files

extern

volatile

static

const

A> static. (i wrote volatile)

27> `union u{ int i; char c;};`

`sizeof(u);`

28> Idenitify err

`5[[a]`

`5["abc"]`

A> `5["abc"]`

12Q on JAVA

29> Java alloctaes mem in

STACK

HEAP

A> HEAP

30> Can u call Garbage collector explicitly

A> S . Find out the syntax. It was asked

31> What does this mean `X = Y`

A> Object X refers to the contents of Y.

32> Q on Null pointer Exception

33> Synchronize is used 4???

HP Placement Paper August 2003

The interview pattern will be as:

1. Tell abt your self.
2. They will ask for the subjects in which we are strong
(Here they will consider the ranking that we written during written examination & marks we got in written exam)
3. Mostly the interview time will be 45 minutes around (for only people there is about 1.5 hr)
4. HR questions may include here
5. Good thing is They r friendly and cooperative so confidence place role.

If u don't know the answer better not to answer than to tell some bad stuff.

For me 2 people interviewd. As I told them that I am strong in C they told me to write some programs like double linked list, singly linked list(adding node at last), macros, const *,char *,pointer arrays.

The main question that they asked was how can u compile or execute 'c' program without editor. (Using TCC utility)

coming 2 cpp only 1 question i.e what is polymorphism.

Java they asked me about protocol used in JSP, which layer does it belongs to, main differences between Javascript ,java and JSP.

During personal introduction try to excell your capabilities by giving examples like as fast learner, hard worker like..!

If u have any achievements & awards try 2 put them all during personal INtroduction.

The interviewers are very co-operative and highly friendly (so confidence plays vital role)

Make a note that Technical round is the main one.I think there wont be any elimination at HR level unless luck unfavours us.

Added Experience is Definite Added Advantage.

Here are the HP interview questions asked to me.....
but it depends on who takes ur interview

- 1] tell @ urself
- 2]ur fav. prog. language
- 3]write string compare program in C (optimize it)
- 4]what is DML in oracle.
- 5]what is RDBMS? howz it different from DBMS?
- 4]What is abstraction? is it only in OOP or in C too? can we say printf func. in stdio.h is an abstraction?
- 5]how will u write a prog to perpare a report based on sorting files on date. i.e u have say 10 files and u have to sort them n make a report of them date of creation/ size - wize.
- 6]a question of java prog. where class was subclass of String and few output functions were there.
- 7]few questions on output in C related to pointers (easy)
- 8]Normalization? functional dependency vs. transitive dependency?
- 9]Unix - some easy ones.

2nd round

u know what is a test plan? is testing important? how will u estimate time taken for testing in product dev. life cycle? given an estimation problem?
kinds of testing? what testing a developer has to do ...order of different kind of testing.... which is imp testing or development from risk point of view and from personal point of view. what id more imp. work or money?

3rd round

tell something about urself....what do u know @ HP? why looking for a change?

if u have done some cerification/course then why? which are the good companies acc. to u and why?

why join HP? and then

There are 3 interviews :

1. Technical interview
2. Program Manager interview
3. HR interview

I wrote here all the questions I remember. I think I almost covered most of them.

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Technical Interview

- 1) What is 'Open System' and 'Closed System' in Computer terminology ?
- 2) What is meant by Open Source ? Is Java Open Source or not ?
- 3) Explain MVC (Model-View-Controller) architecture ? What acts as controller ? How views get updated ?
- 4) What are design patterns ? Explain 'FACADE Design Pattern' ?
- 5) What's the difference between CMM and CMMI ?
- 6) What is 'Requirements Development' in CMMI ?
- 7) How do you capture requirements ? Using what method you make sure that requirements are properly captured?
- 8) What is UseCase ? What is the template to write UseCases ?
- 9) How do you perform testing ? Do you use any automated testing tools ? If so, what are they ?
- 10) I have a Web Server, Application Server, Servlet Engine, Database - all located on separate systems behind firewalls. How will you design an application using 3-tier architecture in this case ?
- 11) What is 2-Phase Commit and 3-Phase Commit in database terminology ?
- 12) Will the 'View' get refreshed immediately when you update a database table. If it doesn't get refreshed immediately, what method you use to refresh it ?
- 13) Some websites will have hierarchical display of items. (For eg, on click of a '+' symbol, all items under this item gets listed.). How do you store such structure in database (Note: You can store as XML object. But how do you store in database tables without using XML) ?
- 14) What are interfaces, abstract classes. What is their purpose and differences ?
- 15) What is 3 rd level of normalization ?
- 16) How do you implement TREE in Java ? How do you implement the same using C or C++ ?

17) What is the difference between Application and Web servers ?

Remarks on Technical interview : The questions are mostly analysis and design related rather than coding related. You should have clear idea of analysis & design in J2EE, how various J2EE components fit into various layers.

Program Manager Interview

- 1) Tell about yourself ?
- 2) What is the most challenging situation faced in your professional life ? How you faced it ?
- 3) What are the reasons you are leaving your current company ?
- 4) Do you have any objection for working completely at off-shore or working in a different technology ?
- 5) Any questions about HP ?

HR Interview

- 1) How do your colleagues describe you ?
- 2) What is your current and expected salary ?
- 3) What are the reasons you are leaving your current company ?
- 4) What do you know about HP ?

HP Test Paper 2003

The test consists of 4 sections

Total 48 questions

12Q - general computer knowledge

12Q - computer science(dbms,networks,os) concepts like questions on paging, ...

12Q - c/c++ questions

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12Q - java questions

The question paper had 48 questions to be answered in 1hr. Time will be quite sufficient. They have different sets(3) of question papers. I had got the paper with serial number ending with ***- 02-2003.

I would like to request everyone who have attended the HP test to contribute the questions that they remember.

Some questions that i remember are.....

1>General section : computer science general knowledge

2> Computer science general: simple questions

1) HP acquired this company in 2002. Which is the company

a)Compaq b)Dell c)option 3 d) Option4

Ans: a

2) what does 3G denote

a) 3rd generation mobile communication b) 3rd generation computer languages c) option 3 d) option4

Ans: a

3)an application program that is used by the users to get the information from the backend of some application like databases:

a) application server b)proxy server c)database server d)option 4

Ans: database server

4) which of the following is not true about the e-mail

a) it can be accessed by a client program using POP

b) it can be accessed by a client program using imap protocol

c) option 3

d) option 4

Ans: I don't remember the answer but first 2 are true.

5) Some question regarding the company and who developed it (the thing to remember is that Apple produce Macintosh computers).

5) What is X.25?

a)option 1 b)option 2 c)option 3 d)option 4

Ans: find out??:-)

>>> napster app is used for : downloading music

3> c/c++ section: questions on c/c++, programs o/p etc.

1) main()

{

unsigned int i=3;

while(i >=0)

printf("%d", i--);

}

how many times will the printf stmt be executed?

a)0 b)3 c)4 d)infinite

Ans: I think the answer is infinite, b'cos 'i' is an unsigned integer and it will not decrement below '0' and hence end up in an infinite loop.(yes, i checked and it is getting stuck in an infinite loop)

2) main()

{

int x,y, z;

x=2;

y=5;

z= x+++y;

```
printf("%d %d %d", x, y z);  
}
```

a)3 5 7 b)option 2 c)option 3 d)option 4

Ans: a

3) # define swap(a,b) temp=a; a=b; b=temp;

```
main( )
```

```
{
```

```
int i, j, temp;
```

```
i=5;
```

```
j=10;
```

```
temp=0;
```

```
if( i > j)
```

```
swap( i, j );
```

```
printf( "%d %d %d", i, j, temp);
```

```
}
```

Ans: On compiling i got ans 10, 0, 0. I did not understand the concept. Please explain this to me.

4>Java section: questions on java related stuff.

1) Java was initially code named as:

a)Oak b)green c)miller d)option4

Ans: Oak

2) what is not true about the following statements about java.

a) it is compiled using javac compiler

b) the compiled files have .class extension.

c) such files cannot be transferred from one comp to another.

d) they use the java interpreter

Ans: c

3) Why is the synchronize used?

a) to initialize multiple objects b)to lock an object c)option3 d)option 4

Ans: b (probably)

some java qns

1.

```
package java.lang; // Ans: <-----! Runtime gives error ( test it)
class HPTest2
{
public static void main(String args[])
{
String x="sdfsd";
System.out.println("Hello");
}
}
```

}

2

```
class HPTest
{
static HPTest x;
public static void main(String args[])
{
// below line not given
//x=new HPTest(); if not this line Null pointer exception
x.foo();
}
void foo()
{
System.out.println("Hello");
}
}
```

```
3:
class A
{
A(int x)
{
System.out.println(" x=" + x );
}
A(int x,int y)
{
System.out.println(" x=" + x + " y =" + y);
}
}
class HPTest4
{
public static void main(String args[])
{
A a=new A(1);
A b=new A(2,3);
A c=new A();
}
}
```

Second Round: interview

In the 2nd round, Hp employees(2 or 3) will be interviewing us. The Q asked will vary from person to person.

They asked abt my latest projects first. They concentrated less on my academic proj. So plz prepare well abt the latest proj u did.

And then they asked fully in C, C++ like what is the diff b/w const char * and char const *. What is friend fns, virtual destructors, virtual constructors, How will the compiler interpret when a virtual class is declared and other basic stuff like calloc, malloc.

In java what is the default exception, Is there any priority for the exceptions, finally, heap concepts etc.

They havent asked any Q in N/wing and OS.

This is the stuff which i faced in my interview. I am again telling u... This varies from person to person.

But any way all the best for all u guys who got selected for the next round. Its very easy. Dont be in a hurry. Take ur own time. Another advice, If u don't know the answer for

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any Q they asked, be frank. Don't try to bluff it because the next Q will depend upon the Q u answer previously.

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1. Tell abt your self.
2. They will ask for the subjects in which we are strong
(Here they will consider the ranking that we written during written examination & marks we got in written exam)
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During personal introduction try to excell your capabilities by giving examples like as fast learner, hard worker like..!

If u have any achievements & awards try 2 put them all during personal INtroduction.

The interviewers are very co-operative and highly friendly (so confidence plays vital role)

WISHING U ALL THE BEST FOR YOUR SUCCESS

Make a note that Technical round is the main one. I think there wont be any elimination at HR level unless luck unfavours us.

Added Experience is Definite Added Advantage.

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In general section they r asking questions like Who is CEO ,founder of HP,Microsoft,Oracle..

some questions u will get from following list

IT Gurus

- 1) Tim Berners Lee -- Founder of the World Wide Web
- 2) Bjarne Stroustrup, C++ Stroustrup called his new language 'C with Classes and then 'new C'.Because of which the original C began to be called 'old C' which was considered insulting to the C community. At this time Rick Mascitti suggested the name C++ as a successor to C.
- 3) Michael Dell of Dell Computers
- 4) Larry Ellison of Oracle Larry Ellison and Bob Oats were working on a consulting project for the CIA (Central Intelligence Agency). The code name for the project was called Oracle (the CIA saw this as the system to give answers to all questions or something such). The project was designed to help use the newly written SQL code by IBM. The project eventually was terminated but Larry and Bob decided to finish what they started and bring it to the world. They kept the name Oracle and created the RDBMS engine. Later they kept the same name for the company.
- 5) James Gosling,and his project is now known as Java Originally called Oak by creator James Gosling, from the tree that stood outside his window, the programming team had to look for a substitute as there was no other language with the same name. Java was selected from a list of suggestions. It came from the name of the coffee that the programmers drank.
- 6) Bill Hewlett(L) and Dave Packard(R) of HP. Behind them in the picture is the famous HP Garage. Bill Hewlett and Dave Packard tossed a coin to decide whether the company they founded would be called Hewlett-Packard or Packard-Hewlett.
- 7) Ken Thompson (L)and Dennis Ritchie(R) ,creators of UNIX, B and C Dennis Ritchie improved on the B programming language and called it 'New B'.He later called it C. B was created by Ken Thompson as a revision of the Bon programming language (named after his wife Bonnie)
- 8) Larry Page(L) and Sergey Brin(R), founders of Google. Google was originally named 'Googol'. After founders (Stanford graduates) Sergey Brin and Larry Page presented their project to an angel investor, they received a

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cheque made out to 'Google' !

9) Gordon Moore(L) and Bob Noyce(R) ,founders of Intel Bob Noyce and Gordon Moore wanted to name their new company 'Moore Noyce' but that was already trademarked by a hotel chain, so they had to settle for an acronym of INTegrated ELectronics.

10) Andreas Bechtolsheim , Bill Joy, Scott Mc Nealy and Vinod Khosla of SUN(StanfordUniversity Network) MicroSystems Founded by four StanfordUniversity buddies, SUN is the acronym for Stanford University Network. Andreas Bechtolsheim built a microcomputer; Vinod Khosla recruited him and Scott McNealy to manufacture computers based on it, and Bill Joy to develop a UNIX-based OS for the computer.

11) Linus Torvalds of Linux Operating System Linus Torvalds originally used the Minix OS on his system which he replaced by his OS. Hence the working name was Linux (Linus' Minix). He thought the name to be too egotistical and planned to name it Freax (free + freak + x). His friend Ari Lemmk encouraged Linus to upload it to a network so it could be easily downloaded. Ari gave Linus a directory called linux on his FTP server, as he did not like the name Freax. (Linus' parents named him after two-time Nobel Prize winner Linus Pauling)

12) Steve Woznaik(sitting) and Steve Jobs of APPLE Computers Favorite fruit of founder Steve Jobs. He was three months late in filing a name for the business, and he threatened to call his company Apple Computers if the other colleagues didn't suggest a better name by 5 o'clock.

HP Paper 30 Aug 2003

There are four sections in the test

- 1.general ability(12q)
- 2.computer science(12q)
- 3.c/c++(12q)
- 4.java.(12q)

All the questions are mandatory. No negative marking

the questions are

section 1

- 1.Intel's first processor is
1)-----2)4004 3) 80804)8086

- 2) Founder of Microsoft corporation

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- 1) Bill Gates 2) Billgates and -----
- 3) Bill gates and Paul Allen 4) Billgates and -----

- 3) Oddman out
- 1) Internet Explorer 2) Alt Vista 3) Netscape Navigator 4) Opera

- 4) Which of the following is not a database
- 1) PLSQL 2) MSSQL 3) MySQL 4) Informix

- 5) Laura C--- (I don't remember exact spelling) is CEO of
- 1) Oracle 2) DELL 3) Hp 4) Intel
- Ans) She is CEO of HP

- 6) 'SUN' Microsystems SUN stands for
- 1) Simple Unified Network 2) Solaris Unified Network 3) -----
- 4) None of the above.

section 2

- 1) IRC stands for ans) Internet Relay chat

- 2) ICQ stands for ans) -----

- 3) The protocol used to translate Internet address to Network address is
- 1) IP 2) TCP 3) ARP 4) RARP

- 4) In some OS the option that the system provides to communicate with other process is
- 1) IPC (Inter Process Communication) 2) ---- 3) ---- 4) ----

- 5) VPN stands for ans) Virtual private network.

- 6) The time taken to transfer data from one place to other place or process within specified time is
- 1) Throughput 2) Latency time 3) Response time 4) -----

- 7) The time complexity for which of the following is $O(n \log n)$
- 1) Radix sort 2) Quick sort 3) Shell sort 4) Bubblesort.

- 8) Which of the following is used pass the packets between networks
- 1) ----- 2) Bridges 3) Router 4) Gateways

Section 3

- 1) Which of the following can be used to print % to the screen
- 1) `printf("% ");` 2) `printf("\% ");` 3) ----- 4) -----

2) how many times the loop is executed

```
main()
{
int i=3;
while(i>=0)
printf("%d",i--);
return(0);
}
```

1) 3 2) Infinite 3) 0 4) 2

3) what is the output

```
int l=10;
printf("%d %d %d ",i,++i,i++);
```

1) 10 11 11 2) 11 11 10 3) 10 11 10 4) None of the above

4)

```
x=2;
```

```
y=5;
```

```
z=x+++y;
```

```
printf("%d %d %d",x,y,z);
```

1)----- 2)----- 3)----- 4)-----

5) In c++,

1)-----

2)-----

3) you cannot Overload new operator for a class

4)-----

6) Void xyz(char a[10])

```
{
```

```
int i;
```

```
i=sizeof(a);
```

```
printf("%d",i);
```

```
}
```

1) 10 2) can't say 3) 2 4) same as size of pointer.

7) Local Variables is stored in which part of the memory

1) register or heap 2) heap 3) register or stack 4)-----

8) which of the following can be shared by programs

1) Text Code

2) Data segment

3) heap memory

4)-----

HP Paper Aug 2003

4 Sections
48 quesns
no negative marking
all objective quesns.

IT INformation

1. Who is associated with C language?
2. CEO of MICROsoft
3. Company producing Routers, Bridges
4. From 70s 80s Company producing mouse, GUIs.....a) Dell b) IBM c) Xerox d) HP
5. Inventor of Pascal
6. Abt SUN micro systems
7. first digital comp machine a) von neumann b) Dijkstra
8. Which of these is not search engine a) hotbot b) parametric c) Altavista d) google
9. In 2002 IBM acquired which company a) Rational b) oracle c) netscape
10. founder of apple computer (2 persons)

Computer Concepts

1. Complexity $n \log n$ a. quick sort b. bubble sort c. shell sort
2. Abt Protocols
3. Abt SSL
4. Abt MBR
5. Cross compiler
6. synonymus to main memory
7. Semaphores
8. Database quesns Stored procedures
Trigger strategy
9. Bandwidth measured in ?
10. Term assoc with Context Transaction

Java

1. extending the class means
2. how many values does char of java has
3. Java pgm can be executed on any m/c how?
4. utility used for dynamically changing the tables
a. vector b. hash table c. enumeration
d. structures

5. synchronise means
6. if X & Y r objects X = Y means
7. which action Java platform restricts on applets
 - a. Image viewing
 - b. Accept user i/p
 - c. write to system files
 - d. initialise date in browser
8. quesns on JDBC
9. Two quesns on simple java pgms.
10. Java was initially code named as:
 - a) Oak b) green c) miller
- 11.) what is not true about the following statements about java.
 - a) it is compiled using javac compiler
 - b) the compiled files have .class extension.
 - c) such files cannot be transfered from one comp to another.
 - d) they use the java interpreter

HP Placement Paper

The test had 4 sections, namely.....

General section
Computer science general
c/c++ section
Java section

The question paper had 48 questions to be answered in 1hr. Time will be quite sufficient. They have different sets of question papers. I had got the paper with serial number ending with ***- 02-2003.

I would like to request everyone who have attended the HP test to contribute the questions that they remember.

Some questions that i remember are.....

- 1> General section : computer science general knowledge
- 2> Computer science general: simple questions

- 1) HP acquired this company in 2002. Which is the company
 - a) Compaq b) Dell c) option 3 d) Option 4

Ans: a

2) what does 3G denote

a) 3rd generation mobile communication b) 3rd generation computer languages c)
option 3 d) option4

Ans: a

3)an application program that is used by the users to get the information from the
backend of some application like databases:

a) application server b)proxy server c)database server d)option 4

Ans: database server

4) which of the following is not true about the e-mail

a) it can be accessed by a client program using POP

b) it can be accessed by a client program using imap protocol

c) option 3

d) option 4

Ans: I don't remember the answer but first 2 are true.

5) Some question regarding the company and who developed it (the thing to remember
is that Apple produce Macintosh computers).

5) What is X.25?

a)option 1 b)option 2 c)option 3 d)option 4

Ans: find out??:-)

3> c/c++ section: questions on c/c++, programs o/p etc.

1) main()

{

unsigned int i=3;

while(i >=0)

```
printf( "%d", i--);  
  
}
```

how many times will the printf stmt be executed?

a)0 b)3 c)4 d)infinite

Ans: I think the answer is infinite, b'cos 'i' is an unsigned integer and it will not decrement below '0' and hence end up in an infinite loop.(yes, i checked and it is getting stuck in an infinite loop)

2) main()

```
{  
  
int x,y, z;  
  
x=2;  
  
y=5;  
  
z= x+++y;  
  
printf("%d %d %d", x, y z);  
  
}
```

a)3 5 7 b)option 2 c)option 3 d)option 4

Ans: a

3) # define swap(a,b) temp=a; a=b; b=temp;

main()

```
{  
  
int i, j, temp;  
  
i=5;  
  
j=10;  
  
temp=0;
```

```
if( i > j)
swap( i, j );

printf( "%d %d %d", i, j, temp);
}
```

Ans: On compiling i got ans 10, 0, 0. I did not understand the concept. Please explain this to me.

4>Java section: questions on java related stuff.

1) Java was initially code named as:

a)Oak b)green c)miller d)option4

Ans: Oak

2) what is not true about the following statements about java.

a) it is compiled using javac compiler

b) the compiled files have .class extension.

c) such files cannot be transferred from one comp to another.

d) they use the java interpreter

Ans: c

3) Why is the synchronize used?

a) to initialize multiple objects b)to lock an object c)option3 d)option 4

Ans: b (probably)

HP paper 21 Oct 2003

there were 3 sections

PART- 1 --> 40 q's (Fundamental computer Concepts, includes OS,N/w , protocols)

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PART-2 --> 20 q's (Purely C) -- bit tricky (involves ADA concepts)
PART-3 --> 20 q's (Analytical) --- very easy

I don't remember all the q's. however some of them which i do have been written below.
They are not in order or part of .

Q : What is not a part of OS ?

O : swapper, compiler, device driver, file system.

A : compiler.

Q : what is the condition called when the CPU is busy swapping in and out pages of memory without doing any useful work ?

O : Dining philosopher's problem, thrashing, racearound, option d

A : thrashing.

Q : How are the pages got into main memory from secondary memory?

DMA, Interrupts, option 3, option 4

A : as far as i know its Interrupts --by raising a page fault exception.

Q : What is the use of Indexing ?

O : fast linear access, fast random access, sorting of records , option 4

A : find out....

Q : in terms of both space and time which sorting is efficient. (The question is rephrased .)

O : merge sort, bubble sort, quick sort, option 4

A : find out

which case statement will be executed in the following code ?

```
main()
{
int i = 1;
switch(i)
{
i++;
case 1 : printf("");
break;

case 2 : printf("");
break;
default : printf("");
break;
}
}
```

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Answer : Case1 will only be executed.

Q : In the given structure how do you initialize the day feild?

```
struct time {
```

```
char * day ;  
int * mon ;  
int * year ;  
} * times;
```

Options : *(times).day, *(times->day), *times->*day.

Answer : *(times->day) -- after the execution of this statement compiler generates error.i didn't understand why.can anybody explain.

Q: The char has 1 byte boundary , short has 2 byte boundary, int has 4 byte boundary.
what is the total no: of bytes consumed by the following structure:

```
struct st {  
char a ;  
char b;  
short c ;  
int z[2] ;  
char d ;  
short f;  
int q ;  
}
```

Options are given.

Answer : its very easy 20 and not 19 .

HP Paper 15 Sep 2003

HP Q Paper Pattern:

48Q 1 hr

12Q General Knowledge

12Q General CSE

12Q C and C++

12Q Java

The q's r as follows:-

1. Which of the foll is not a protocol.

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HTTP PIM PSI

A> PSI (check)

2> Which of the foll does not help security.

Good Password
Update Antivirus
VLAN

A> VLAN

3> What was the prob with Intel Processor

Cache
FPU
NONE
A> FIND OUT AND LET ME KNOW

```
Q.# define swap(a,b) temp=a; a=b; b=temp;
main( )
{
int i, j, temp;
i=5;
j=10;
temp=0;
if( i > j)
swap( i, j );
printf( "%d %d %d", i, j, temp);
}
```

Ans: On compiling i got ans 10, 0, 0. I did not understand the concept. Please explain this to me.

and...the answer for your question is
first preprocessor will modify your code before compilation...so
the #define swap will be substituted in the line no.6 of the
main...so your code will become like this before compilation...

```
line 1: int i, j, temp;
line 2: i=5;
line 3: j=10;
line 4: temp=0;
line 5: if( i > j)
```

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```
line 6: swap( i, j );  
line 7: printf( "%d %d %d", i, j, temp);  
because of preprocessor, line 6 becomes  
temp=i; i=j; j=temp;  
so...this is equivalent to  
temp=i;  
i=j;  
j=temp;  
hence...ur overall main becomes  
int i, j, temp;  
i=5;  
j=10;  
temp=0;  
if( i > j)  
temp=i;  
i=j;  
j=temp;  
printf( "%d %d %d", i, j, temp);  
and...now i think u will know why the answer was 10, 0, 0 ..  
4> What does MIME stand for
```

A> Multipurpose Mail Exchange Protocol

5> What does XP stand for in WIN-Xp

A> Experience

6> Who is associated with C

A> Dennis Ritchie

7> Which of the foll is not a IM client

AOL

MSN

JABBER

XINGC

A> XINGC

8> What does ERP stand 4

A> Enterprise resource planning.

9> Who is associated with HOTMAIL

SABEER Bhatia and Jack Smith

SABEER Bhatia and Bill Gates

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A>SABEER Bhatia and Jack Smith

10> What does UNIX stand 4???
Find out

11> Which of the foll is not a app server
BLUESTONE
WEBSPHERE
TOMCAT
JBOSS

A> BLUESTONE

GENERAL CSE Q's

12> What do u call software embedded in ROM

BIOS
FIRMWARE
SHAREWARE
FREEWARE
A> BIOS (Verify and plz let me know)

13> What is semaphore used 4????

14> Integral Constraint helps in???

A> Solving Inconsitent Data prob.

15> PING uses

A> ICMP

16> IP ADDRESS occupies
4 bytes
8 bytes
16 bytes
6 bytes

A> I wrote 8. correct ans 4

17> Which DataStructure helps Searching
STACK
LINKED LIST
HASH
A> HASH

18> Q on Binary tree Depth?
 2^n
 $2^n - 1$
 $\log n$

19> Database shud hav
A> ACID properties.

20> VPN stands 4
A> virtual private n/w

21> what does fork() return 2 parent
child pid
0
A> 0

22> What do u call the relationship b/e a table and
its columnz
A> Schema

12Q on c & c++

23> What is true about c++
A> IT can hav virtual constuctors

24> result of `i=6; printf("%d",i++*i++)`
36
54
cant say
A> Can't say (compiler dependent)

25> output of
`char str[20] = "SANJAY"`

`printf("%d%d",sizeof(str),strlen(str))`

ANS> 20,6

26> Which of the foll cannot b used accross files

extern
volatile
static
const

A> static. (i wrote volatile)

27> union u{ int i; char c;};
sizeof(u);

A> 4 (I got damm irritated when i read this q. I marked 4 and wrote UNDER UNIX next 2 the answer. How can such a dumb q which gives diff values under DOS and UNIX b asked???????????? lemme know)

28> Idenitify err

5[[a]
5["abc"]
A> 5["abc"]

12Q on JAVA

29> Java alloctaes mem in
STACK
HEAP
A> HEAP

30> Can u call Garbage collector explicitly

A> S . Find out the syntax. It was asked

31> What does this mean X = Y

A> Object X refers to the contents of Y.

32> Q on Null pointer Exception

33> Synchronize is used 4???

Tat is all i remember ppl.

HP Placement Paper (computer concepts -40)

aptitude -20

c -20

note that for c , we must follow compiler under unix

computer concepts: os,unix,networks,data structures,computer organization, digital logic design

operating systems:

1)which of the following is not associated with operating systems

a)swapper b)device drivers c)file system d)process mgmt

2)what is the size of virtual memory that must be associated

a)must be same as physical memory b)must be > physical memory

c)can be of any size d)it must be small enough to allocate process

3)which of following is true

a)time sharing is also multi programming

b) multi programming is also time sharing

4)global variables are stored at

a)heap b)stack c)data d)code

computer organization:

1)32 registers are there.an instruction can hold upto 3 registers . the opcode is of 4 bits.
what is minimum size of instruction.

ans:the minimum size of instruction has nothing to do with number of registers

2) some bit on pipelining

3)some bit related to SIMD,MIMD,MISD,SISID

4)minimum no of nand gates require to implement xor gate

ans : 4 gates(check out)

unix:

1)two way communication is possible by means of means of which of the following

ann:unix_socket

2)wc -l x>x prints out

ans:wc command prints 0

3)the background process that continuously run

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ans:daemon process

networks:

1)fragmented packet is reunited at

a)destination b)at next gateway c)at highest MTU gateway d)at the next router

2)the following address 93.58.5.0

a)class A b) class B c) class C d)class D

3)network to host protocol is

ans:RARP

data structres:

1)given a doubly linked list .you are given with a node n and a pointer p associated with it. what are the operarions that to be performed to delete that node.

2)swapping the elements of left child of a tree with that of right child .

```
revswap(node*)
{
node* tree;
if(tree!=null)
swap(tree->left,tree->right)
revswap(tree->left);
revswap(tree->right);
}
if given tree is
1
2 3
4 5 6 7
```

what is the output for about function applied

ans:

1

3 2

7 6 5 4

3)t(n)=4+t(n/2) ,t(0)=1. what is the complexity

4)in hashing each element can be found with complexity of
ans: 1

5)In a program all the addresses that are to be binded to the caller function are done by
a)compiler b) linker c) loader d) run time allocator

6) s->v[integer]
interger->interger,interger/termial

ans: a[2,3,5]

7)char 1 byte , short of 2 bytes , integer of 4 byte,

```
stuct
{
char a;
char b;
int a[2];
short d;
int e;
char i;
} name;
sizeof(name) ans:16
note: consider c compiler unde unix for all c questions
```

c:

```
1)main()
{

int i=1;
swith(i)
{
i++;
case 1: printf("case 1");
break;
case 2: printf("case 2");
break;
default: printf("default");
}
}
```

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ans: when we compile we get warning that unreachable code and if we execute we get "case 1" will be printed.

- 2) questions related to functional pointers
- 3) some question on `const char*p` , `char* const p`;

Interview Details:

i gone through 3 interviews, two technical and one hr
first is on project, os, unix, networks, micro processor, c, software engineering
second on micro processor, c, software engineering and some general
hr is just for formal to give offer letter.

first interview

first question is as usual, tell me about yourself. They observe your expressions and way of your delivery and your confidence. Friends be confident while you are telling, my suggestion is prepare before going there on paper and practice yourself before mirror.

Then they ask about your project. They sometimes going in detail and ask you, while doing

your project , in which areas you feel tough and how would you overcome yourself. They made me

to write some important functions related to my project and i have been explained their prototypes. Be thorough in your project.

in my project socket programming is there and they asked me in depth in inter process communications like semaphores, shared memory. i am unable to answer most of questions.

the questions i remembered are ,

which is fastest ipc and why.

semaphores. for reason please go through some books like unix system programming by batch.

a program is given with 100 lines of code and another program also with 100 lines of code,

both have to be executed and first program with 50 lines first then second has to be started and after second finishes its 50 lines first process has to be started. which inter process communication you use?

ans: semaphore with wait and signal operations

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some questions on operating systems like cpu scheduling, what are types of scheduling in priority scheduling , how can we increase priority of a process
ans: using nice command in unix we can

coming to networks

tcp/ip reference model they asked me
then at which layer which device would be there.

ans:internet layer router

transport layer host

host to network layer switches, repeters.

then they asked me where would be bridges

i said they on datalink layer and is part of host to network layer.

then question is, is bridge is software or hardware

i said of both

then question is , can we have bridge with only software

then i said, i am not sure, but now days bridges are almost absent and routers are doing the

functionality of them.

then they asked me some questions on ip addressing

size of IPV4 address 4 bytes

sizeof Ipv6 address 16 bytes

size of mac address 48 bit

then they shifted to c and questions are below

what happens if malloc fails to allocate memory

would program continue or abort

ans: i tell we can check it's return value by malloc, if it fails returns null and we can do our required action.

//program on sizeof operator

```
void main()
```

```
{
```

```
char *s[10]={"welcome","to","india"};
```

```
printf("%d",sizeof(s));
```

```
}
```

ans:10*sizeof(char*)

it is 10*4=40 under unix

it is 10*2=20 under turbo c++ compiler

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//program that analyses about constant

```
void main()
{
const int i=10;
int *p;
p=&i;
(*p)++;
printf("\n %d",i);
return;
}
```

would it execute

ans: it is going to be and we get 11.

some more questions on c , related to linking , preprocessor like what is difference between function call and macro then some programs like strcpy , strlen , strcmp etc.

then they shifted to micro processor

i told them i only know 8086 .

then questions are

8086 is how many bit micro processor and why it is called so

how many address lines are there

how would you generate 20bit address with 16 bit registers available.

then they shifted to software testing

types of testing unit,black box, white box, regression etc
linear life cycle model and quality assurance etc

Then asked me would you like to pose any questions

my side questions are

what is my performance level

what are the skills i have to improve etc

then they asked me

1)where would you, want to be stand after 5 years, what are you future plans

2)if you wouldn't like the job designation we are giving to you , what would you do

3)why we have to hire you

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what are the different designations in software industry, which position you opt for and why

did you know six sigma rules, what they for, can you tell them

there ended first interview

second interview

second interview is by higher officials, by manager to me

again first question is tell me about yourself

then some questions on c

and a program on c, string comparison

then questions on micro processor in depth

then i told sir, micro processor is in 2nd year of my b.tech, so i forgotten most of things.

then some general questions on software engineering like, how would you estimate the quality of a software etc.

then he came to my hobbies

i told 2 hobbies

then question is, what would you do, if work pressure is more and you have to give up one of your hobbies and which hobby would you give up.

the manager closely observed my feelings and expressions and way of my delivery he mainly concentrated on my attitude and psychology.

then i went to third interview which is hr and formal

Third interview (hr)

again first question is tell me about yourself

then how would you applied to hp

would have any reference and how would you know that person

in what position would you want to see yourself after 5 years

what is your future plan, would you have any interest in higher studies. Etc

HPS (HCL PEROT SYSTEMS)

QUESTIONS: 25

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MARKS:25

DURATION:30 MINUTES

Analytical:

1) barron's GRE: page No. 396 Q:1-4, 12th edition.

An office with 6 staffs. Brown, Black, White, Parker etc.

2) Q:37-39. page No.401, 12th edition

pitcher, thrower, side arm bowling etc. But here

names were changed to charan, hari Etc.

QUANTITATIVE:

1) A B C

C

G F E D 9

QUESTION NOT CLEAR

ANS: ARRANGE FROM 1 TO 9 (A=1,B=2,C=3)

2) SOME DISCOUNT PROBLEM

ANS:Rs.168.00

Paper 2

1. $CBA + CCA = ACD$ given $D=0$, find B,C

2. Two cars(A & B) started to from two stations at the same time. Distance b/w the stations is 230 km. After 3 hours distance b/w them is 20 km. The speed of B increases by 10 km for every one hour. What is the ratio of their speeds?

3. There are 100 people.

4. I) Sonali's father knows that her mother's birthday falls after 25th of JAN and before 25th of FEB

II) Sonali's brother knows that his mother's birthday falls after 23rd FEB and before 28th FEB

To find Sonali's Mother's birthday

a) only I is sufficient

b) only II

c) both I and II are necessary

d) insufficient data

There was one more question of the same type.

THE FOLLOWING PAPER WAS GIVEN IN IIT-99

Paper Model:

Section I: computer awareness(i.e general things about computer)Q.15

-ve marks -1/4

Section II: Simple C- language Q. 15 & -ve marks: -1/4

Section III: On pointers & structures

and C++,JAVA(only 1 on this) Q.10 each question ->2 marks -ve marks: -1

Section IV: Analytical Q.20 each question -> 2 marks.

-ve marks: -1/4

SECTION-I

1). Piggy backing is a technique for

a) Flow control b) sequence c) Acknowledgement d) retransmission

ans: c piggy backing

2). The layer in the OST model handles terminal emulation

a) session b) application c) presentation d) transport

ans: b application

3) ans: a odd numbers of errors

4)Q. In signed magnitude notation what is the minimum value that

can be represented with 8 bits

a) -128 b) -255 c) -127 d) 0

5) c 20

6) a 120

7) b synchronise the access

8) a system call

9) b the operating system

10) a 177333

11) d used as a network layer protocol in network and

windows system

12) b has to be unique in the sub network

13)Q. there is an employe table with key feilds as employe no.data in every n'th row are needed for a simple following queries will get required results.

a) select A employe no. from employe A , where exists from employe B where A employe no. >= B employe having (count(*) mod n)=0

b) select employe no. from employe A, employe B where

A employe no.>=B employ no.grouply employe no.having(count(*) mod n=0)

c) both a& b

d)none of the above

14)Q. type duplicates of a row in a table customer with non uniform key field customer no. you can see

a) delete from customer where customer no. exists

(select distinct customer no. from customer having count)

b) delete customer a where customer no. in

b rowid

c) delete customer a where customer no. in

(select customer no. from customer a, customer b)

d) none of the above

15) c Volatile modifier

----- Section I over with 15 questions -----

SECTION-II

Section II is not covered completely But it is very very easy

. You can do it very easily.

1) ans: recursion

2) long int size

a) 4 bytes b) 2 bytes c) compiler dependent d) 8 bytes

ans: compiler dependent

note: order of a,b,c,d are doubt but answer is correct.

3) x=2,y=6,z=6

x=y==z; ans:x=1

printf("%d",x) ?

4) if(x>2)?3:4

5)

6)

7) ans: c 6 (question on enum)

8) ----

14) c : class A,B and C can have member functions with same name.

15) ans: d none of the above

SECTION-III

1) ans: b It does not work when rp is the last element in the linked list

2) ans: a always

3) ans: b 13

4) ans: b 16

5) ans: d 55,55

6) ans: c 5,10,10,3

7) ---

8) ans:d 4

9) ans: c 5

10)ans: c semicolon missing

SECTION-IV

following are not in order:

2. $M > D > Y$ ans: (a)

6. 10 in 4 seconds,

? in 6 minutes = $10 \times 6 \times 60 / 4 = 900$ ans: (a)

7. $a=2, b=4, c=5$

$(a+b)/c - c/(a+b) = 11/30$ (ans).

8. $100(100000000+100000000)/10000 = 2 \times 1000000$ (ans).

9. what does the hexanumber E78 in radix 7.

(a) 12455 (b) 14153 (c) 14256 (d) 13541 (e) 131112 ans: (d)

10. Q is not equal to zero and $k = (Q \times n - s)/2$ find n?

(a) $(2 \times k + s)/Q$ (b) $(2 \times s \times k)/Q$ (c) $(2 \times k - s)/Q$

(d) $(2 \times k + s \times Q)/Q$ (e) $(k + s)/Q$

(from GRE book page no:411)

data:

A causes B or C, but not both

F occurs only if B occurs

D occurs if B or C occurs

E occurs only if C occurs

J occurs only if E or F occurs

D causes G,H or both

H occurs if E occurs

G occurs if F occurs

NOTE: check following answers.

11. If A occurs which of the following must occur

I. F & G

II. E and H

III. D

(a) I only (b) II only (c) III only (d) I,II, & III

(e) I & II (or) II & III but not both ans: (e)

12. If B occurs which must occur

(a) D (b) D and G (c) G and H (d) F and G (e) J ans: (a)

13. If J occurs which must have occurred

a) E (b) either B or C (c) both E & F (d) B (e) both B & C ans: (b)

14. which may occurs as a result of cause not mentioned

(1) D (2) A (3) F

(a) 1 only (b) 2 only (c) 1 & 2 (d) 2 & 3 (e) 1,2,3 ans: (c)

15. E occurs which one cannot occurs

(a) A (b) F (c) D (d) C (e) J ans: (b)

11 to 15:- ----- e , a , b , c , b -----

Below are in order:

16. to 20. answers:

HP Placement Paper 2003

Question Consist of 4 parts.

Duration of exam is 60 min.

C-----20Q

C++ ----15Q

Unix-----15Q

Apptitude--15Q

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C And C++

1. i=23, j=4, c=0;

c=i++-++j;

o/p?

2. #define CUBE(x) x*x*x

#define MUL3(x,y) 3*x*y

#define ADD(x) x+y

some statement making use of the preprocessors defined above.....find o/p.

3. virtual destructors r used for ?

4. 2 questions on friend functions & classes

5. char c[]="123456789";

i=4;

printf("%c %c", c[i], i[c]);

o/p?

one more question on these lines.

6. int *ptr;

p=0;

p++;

printf("%u", p);

o/p?

a. 0 b. garbage value c. 4 d. none of the above

7. double i=0.0;

switch(i)

{

case 0.0:

printf("jgdj");

case 1.0:

printf("ptoy");

break;

default:

```
printf("hdfv");  
}
```

o/p?

8. volatile int i;

in d above statement, is "volatile"

a. a type declaration b. type qualifier c. storage class d. none of the above

Unix

1. "bash" is a kind of shell in UNIX

2. primitive flavours of unix

options : a. BSD & Sys V b. LINUX & BSD c..

3. which of the following is used for redirection in UNIX? >, |, <, ^

4. what is UNIX terminology for multi-tasking?

a. time slicing b. pre-emptive c. time division d.....

5. In UNIX if you try accessing a directory for which you don't have permission, what message is displayed?

a. permission denied b. invalid user c. access denied d.....

HP Placement Paper

Section A. -----50qns(general aptitude,english etc):

Section B. ----- 10 Questions on Computer concepts.

Section C. ----- 30 Questions on C

1. WAP find and replace a character in a string.
2. WAP a function to perform the subtraction of two .Eg:char N1="123",N2="478",
N3=-355(N1-N2).
3. WAP dynamically initialize a 2 dimensional array Eg:5x20,accept strings and check for vowels and display the no. finally free the space allocated .
4. WAP read a line from file from location N1 to N2 using command line arguments

Eg:exe 10 20 a.c

5. WAP find the largest of 4 no using macros.

General section

Computer science general, c/c++ section, Java section ,The question paper had 48 questions to be answered in 1hr. Time will be quite sufficient. They have different sets of question papers. .

- 1 General section : computer science general knowledge

2. Computer science general: simple questions

1. HP acquired this company in 2002. Which is the company

a) Compaq b) Dell c) option 3 d) Option4

Ans: a

2. What does 3G denote

a) 3rd generation mobile communication b) 3rd generation computer languages

c) option 3 d) option4

Ans: a

3. An application program that is used by the users to get the information from the backend of some application like databases:

a) application server b)proxy server c)database server d)option 4

Ans: database server

4. Which of the following is not true about the e-mail

a) It can be accessed by a client program using POP

b) It can be accessed by a client program using imap protocol

c) option 3

d) option 4

Ans: I don't remember the answer but first 2 are true.

5. Some question regarding the company and who developed it (the thing to remember is that Apple produce Macintosh computers).

c/c++ section: questions on c/c++, programs o/p etc.

```
1 main()  
{  
  unsigned int i=3;  
  while( i >=0)  
  printf( "%d", i--);  
}
```

how many times will the printf stmt be executed?

a)0 b)3 c)4 d)infinite

Ans: I think the answer is infinite, b'cos 'i' is an unsigned integer and it will not decrement below '0' and hence end up in an infinite loop.(yes, i checked and it is getting stuck in an infinite loop)

```
2. main( )  
{  
  int x,y, z;  
  x=2;  
  y=5;  
  z= x+++y;  
  printf("%d %d %d", x, y z);  
}
```

a)3 5 7 b)option 2 c)option 3 d)option 4

Ans: a

```
3 # define swap(a,b) temp=a; a=b; b=temp;
```

```
main( )  
{  
  int i, j, temp;  
  i=5;  
  j=10;  
  temp=0;  
  if( i > j)  
  swap( i, j );  
  printf( "%d %d %d", i, j, temp);
```

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}

Ans: On compiling i got ans 10, 0, 0. I did not understand the concept. Please explain this to me.

4. Java section: questions on java related stuff.

1) Java was initially code named as:

a)Oak b)green c)miller d)option4

Ans: Oak

5. What is not true about the following statements about java.

a) it is compiled using javac compiler

b) the compiled files have .class extension.

c) such files cannot be transferred from one comp to another.

d) they use the java interpreter

Ans: c

6. Why is the synchronize used?

a) to initialize multiple objects b)to lock an object c)option3 d)option 4

Ans: b (probably)