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Microsoft Internship (On-Campus)

- Difficulty Level :[Expert](#)
- Last Updated :19 Jul, 2019

Interviews

Technical Round 1:

warmup questions:

- i) Difference between c and c++ and talk about the features of c++?
- ii) virtual functions
- iii) abstract class

1)Write a function that crawls the hyperlinks present in a website and prints the dead pages? assuming i have been provided the following functions:

```
vector <String> hyperlinks_present_in_Webpage(String)
bool is_page_dead(String)
```

2)How to write an interface in c++ ?

3)Have you worked with api's?

4)It seems you have limited yourself to curriculum . Any special reasons?

5)Tell about your 2 most challenging pieces of code you have written

6)In ds and algo have i done graph algorithms.name some

Conclusion:

any questions?

Technical Round 2:

1)what do you feel is your strongest language/favourite language?

2)how much is your experience in c++?

```
class parent
{
public:
void walk()
{
cout<<"parent walking\n";
}
}
class child:public parent
{
public:
void walk()
{
cout<<"child walking\n";
}
}
child p;
```

p.walk;

3)What will be the output of the above code snippet? Will there be any error?

4)Will a constructor allocate memory if it throws an exception?

Write a code to check the above situation if someone is not sure?

5)Difference between overriding and overloading

6) What are the components of a function's signature(choose): function name, return type, no of arguments and their data type, sequence of the parameters?

```
class parent
{
public:
parent(String )
{
cout<<"parent initialised\n";
}
void walk() // consider its a virtual function
{
cout<<"parent walking\n";
}
}
```

```
class child:public parent
{
public:
child()
{
cout<<"child initialised\n";
}
void walk()
{
cout<<"child walking\n";
}
}
```

7)Indicate which of the numbered statements will compile, run and give the corresponding output

compile(y/n) run(y/n) output

1 parent p=new parent();

2 parent np=new child();

3 child mp=new parent();

4 child cp=new child();

5 p.walk();

6 np.walk();

7 mp.walk();

8 cp.walk();

(i)The statements that will give error how can i modify them so that the program runs and what will

be the output.

Assume that I cannot change the parent class.

(ii) difference between writing

parent p;

parent p=new parent();

(iii)

can I write

if(NULL == p)

in place of if(p == NULL)

(iv) difference between writing

parent *p=new parent();

and, parent &p=new parent();

puzzle :

The interviewer folded a square sheet and tore it in parts, then folded those parts and tore them again.

gave me 10 pieces(2 pairs of identical triangles, 2 pairs of identical quadrilaterals, two pieces of different triangles)and asked me to form a square

HR round

1)Tell me about your education/schooling

2)Why you want to join microsoft for internship?

3)array question

Swap adjacent elements of an array in such a way that for given

Input: 1 2 3 4 5 6 **Output:** 2 1 4 3 6 5

4)What will you do to prevent notepad from opening more than one instance.

Write a small code?

5)What is your favourite subject?(give reason)

6)What is your takeaway from the pre placement talk? What did you like in it and Why?

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