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Microsoft Interview experience | Set 106

- Difficulty Level :\nMedium
- Last Updated :\n07 Sep, 2016

1. Phone Interview

- Tell me about yourself
- Questions related to kernels(difference between linux OS/kernel and windows OS/kernel)
- Difference between Process and thread

```
// 32 bit architecture\r\nbool isPowerOftwo(int no)\r\n{\r\n    int i = 1;\r\n    int state = 0;\r\n    int k = 0;\r\n
```

2. F2F

- How many storage types are there in C.
- How many data types are there in C.
- Given a file with many strings. Find how many unique anagrams exists. (Hash table, BST and finally TRIE approach).
- How will you handle large data in a distributed way for the above question.
- How will you handle large data in one reducer.
- What are the properties of distributed systems.

3. F2F

- Implement map reduce program very similar to word count.
- How will you handle large data in one reducer.
- How will you distribute data across cluster and data centers.
- Internals of hadoop.(saving of intermediate files after map phase)

4. F2F

  - Compress a string \xe2\x80\x9caaabbcdddd\xe2\x80\x9d to \xe2\x80\x9ca3b2c1d4"
  - What this program actually does internally

    ```
    void fun() {\r\n\r\nint a = 5;\r\nint * b = new int(10);\r\n\r\n}
    ```

- What is the effect of this program to multiple threads.
- Design distributed file system.

5. Leadership round

- Why you want to change?
- Discussions around azure business model, revenue model, details of job profile, etc.
- Given binary tree\xe2\x80\x99s root and a node, find all the ancestors of the node.

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All Practice Problems for Microsoft !

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